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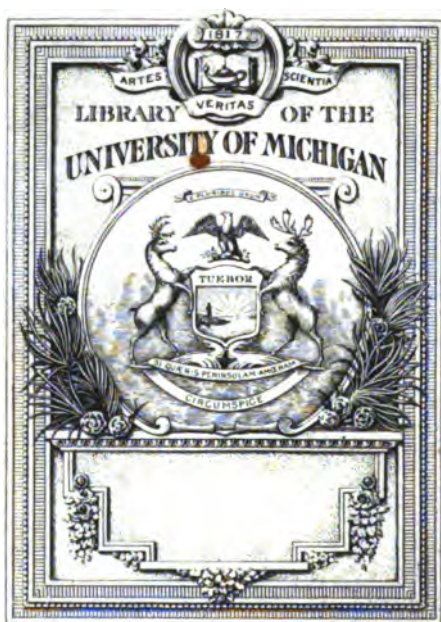
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Public Documents of Massachusetts:

BEING THE

ANNUAL REPORTS

OF VARIOUS

PUBLIC OFFICERS AND INSTITUTIONS

FOR THE YEAR

1893.

PUBLISHED BY THE SECRETARY OF THE COMMONWEALTH.

Vol. VIII.

BOSTON :
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,
18 POST OFFICE SQUARE.
1894.



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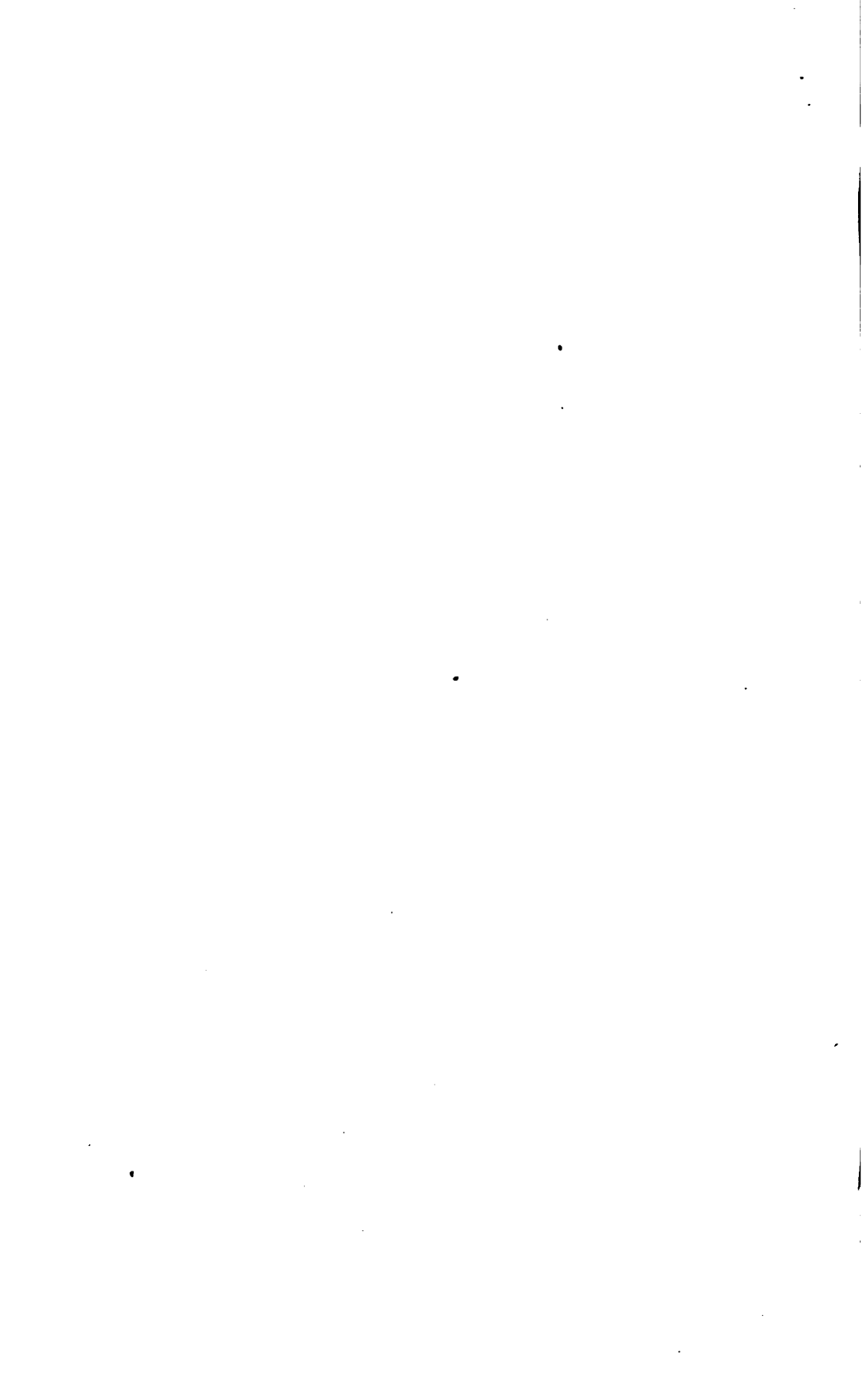
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FIFTY-SEVENTH ANNUAL REPORT

OF THE

BOARD OF EDUCATION:

TOGETHER WITH THE

FIFTY-SEVENTH ANNUAL REPORT

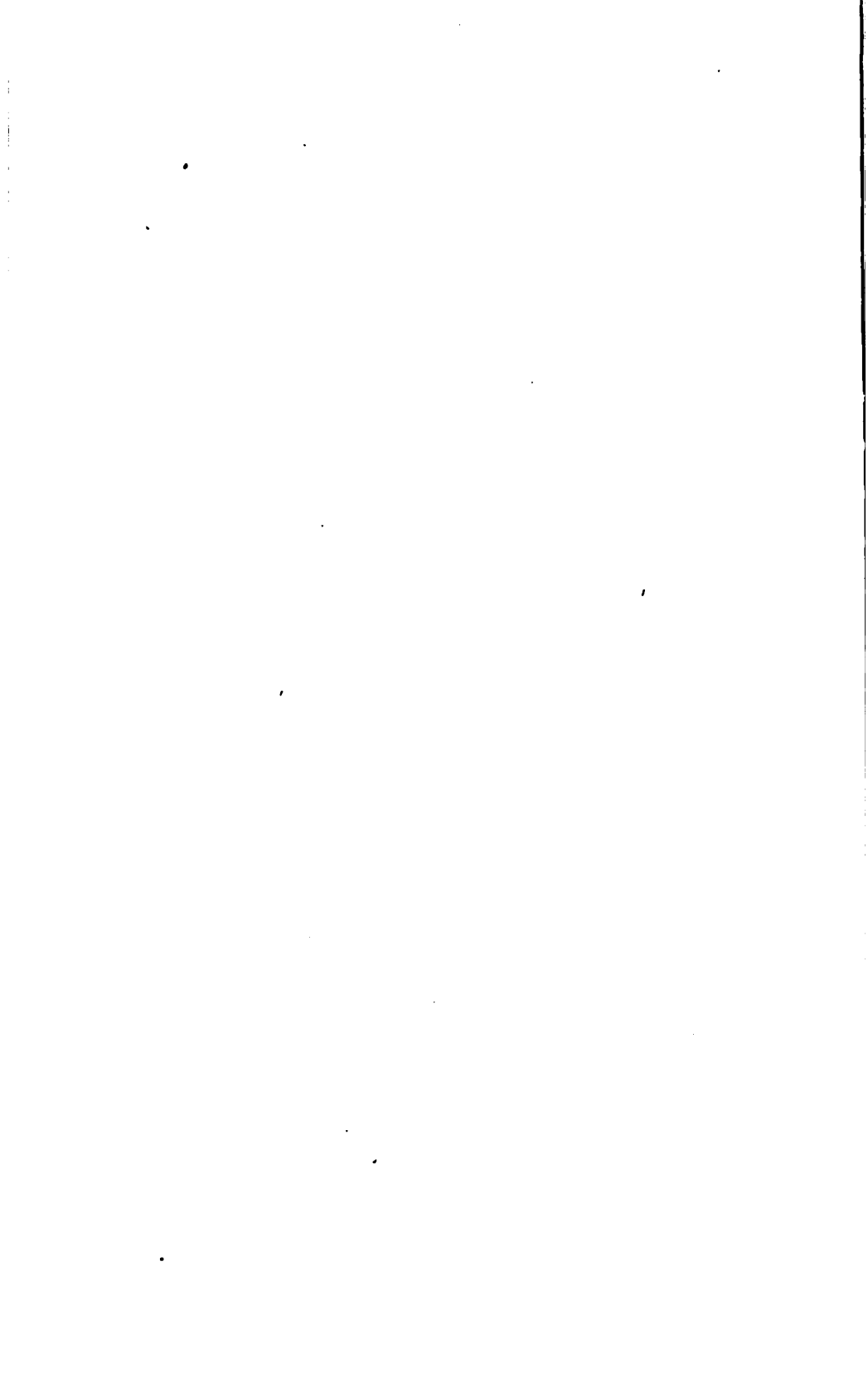
OF THE

SECRETARY OF THE BOARD,

1892-93.

JANUARY, 1894.

BOSTON:
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,
18 POST OFFICE SQUARE.
1894.



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STATE BOARD OF EDUCATION, 1894.

EX OFFICIO.

HIS EXCELLENCY FREDERIC T. GREENHALGE, *Governor.*

HIS HONOR ROGER WOLCOTT, *Lieutenant-Governor.*

BY APPOINTMENT.

ALICE FREEMAN PALMER,	. Cambridge,	. . .	May 25, 1894.
ADMIRAL P. STONE,	. Springfield,	. . .	May 25, 1895.
KATE GANNETT WELLS,	. Boston,	. . .	May 25, 1896.
MILTON B. WHITNEY,	. Westfield,	. . .	May 25, 1897.
GEORGE I. ALDRICH,	. Newtonville,	. . .	May 25, 1898.
ELMER H. CAPEN,	. Somerville,	. . .	May 25, 1899.
ELIJAH B. STODDARD,	. Worcester,	. . .	May 25, 1900.
GEORGE H. CONLEY,	. Boston,	. . .	May 25, 1901.

SECRETARY.

JOHN W. DICKINSON,* *Newton.*

CLERK AND TREASURER.

C. B. TILLINGHAST, *Boston.*

AGENTS.

GEORGE A. WALTON,	. . . . .	<i>West Newton.</i>
JOHN T. PRINCE,	. . . . .	<i>West Newton.</i>
ANDREW W. EDSON,	. . . . .	<i>Worcester.</i>
G. T. FLETCHER,	. . . . .	<i>Northampton.</i>
JAMES W. MACDONALD,	. . . . .	<i>Stoneham.</i>

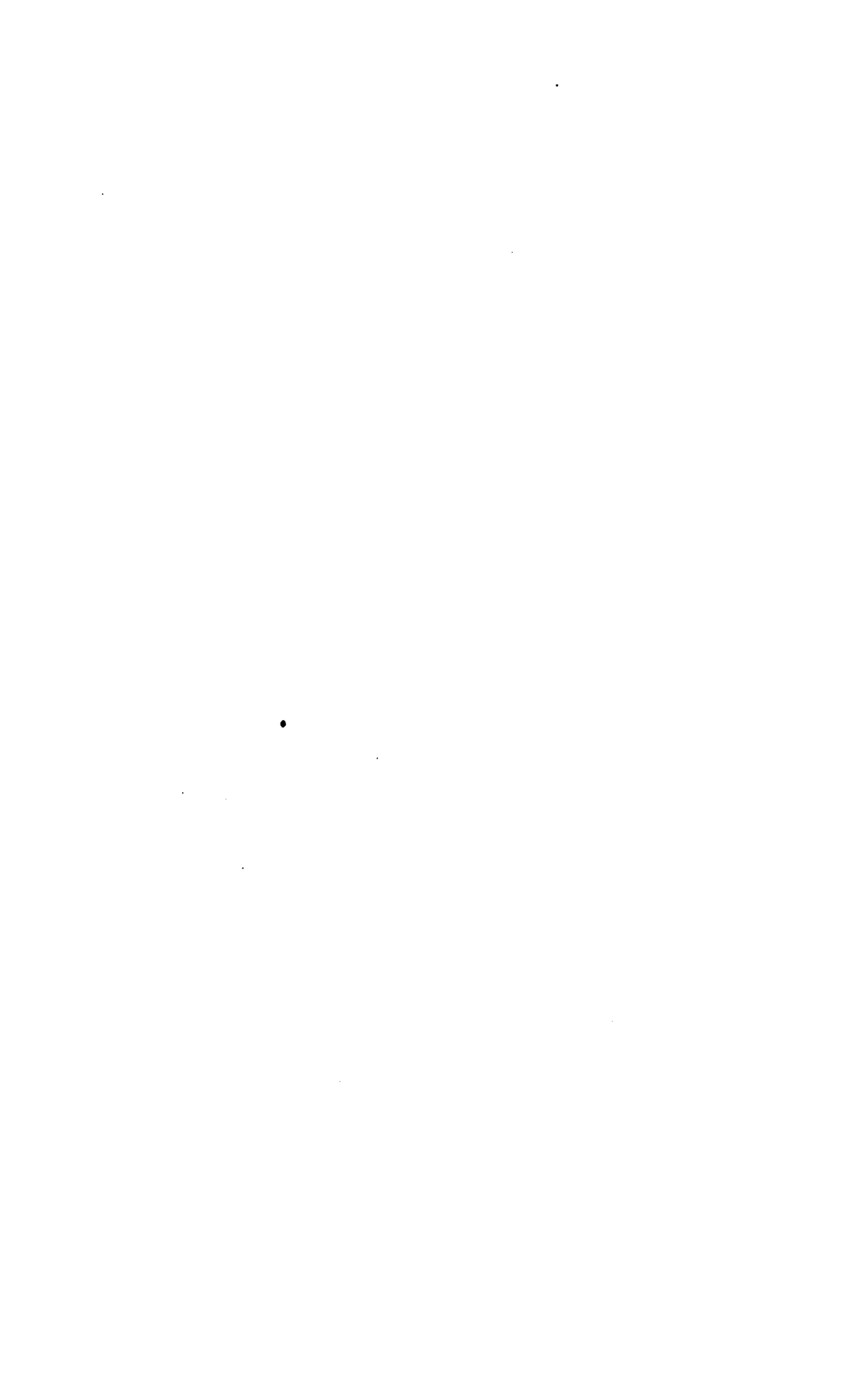
AGENT FOR THE PROMOTION OF INDUSTRIAL DRAWING.

HENRY T. BAILEY, *North Scituate.*

ASSISTANT FOR WESTERN COUNTIES.

L. WALTER SARGENT, *North Grafton.*

* Resigned Dec. 30, 1893.



ANNUAL REPORT

OF THE

BOARD OF EDUCATION.

ANNUAL REPORT.

The Board of Education has the honor of submitting to the Legislature its fifty-seventh annual report.

Detailed reports of the visitors of all the normal schools, of the secretary and the agents of the Board, the financial statement, the abstract of school returns, and other matters of importance are also submitted. Special attention is called to these reports and statistics, to the condition of the schools which they set forth, and to the recommendations which have been made.

The Board has no power whatever to control the schools, or to examine or appoint teachers. It has authority, however, to obtain annually full information in regard to the condition of public education, and, through the important work of its secretary and agents, to co-operate with every good influence in promoting the progress of the schools and in recommending wise legislation.

The principal work of the Board consists in the care and direction of the six normal schools. This work has been actively prosecuted throughout the year with unusually promising results. Last September 287 new students entered the five normal schools in Bridgewater, Framingham, Salem, Westfield and Worcester, while the whole number in attendance at the opening of the school year was 824. An appropriation of \$200,000, in addition to the amount that may be realized from the sale of the present property, not less than \$25,000, was made last winter for a new building at Salem. When that is completed every normal school except Worcester will have been provided within ten years with new and admirable buildings.

For many years discussion has been going on as to the best means of securing an adequate supply of teachers for our public

schools who possess the essential qualifications of high character and intellectual ability, liberal education and professional training. The normal schools were established to give this professional training to the public school teachers of the Commonwealth, and only in so far as they do this important work effectively have they solid grounds of existence at public expense. One of the chief obstacles their leaders have had in securing the highest results from their teaching has been the insufficient preparation which the students have brought to their normal studies. A more thorough and more advanced education should be secured before the normal school work is attempted. Then purely academic instruction would no longer be necessary and all subjects could be treated professionally. The Board of Education believes that the time has come when the standard of admission to the normal schools must be raised, in the interests of the schools of every grade. Early this year they therefore announced that on and after September, 1894, all students, before presenting themselves for examination for admission to the normal schools, shall be graduates of high schools of a standard satisfactory to the Board, or shall have had an equivalent education. This can now be done without hardship, since there has been an enormous increase of high schools and of free public libraries, especially in the western part of the State, during the years since the present requirements for admission were fixed. At present less than fifty of the towns in the State, and these are among the smallest, are without a free library, while the Legislature has offered assistance to these towns in proportion to their own efforts in establishing such libraries. Practically, to the whole school population of the State, high school instruction is available and free. There are 247 high schools and 94 academies among the 352 cities and towns of the State. Under the law approved April 30, 1891, any town not maintaining a high school is required to pay the tuition of any child of the town who, with the approval of its school committee, attends the high school of another town or city. In several towns secondary instruction is provided for those students who would otherwise be in high schools, by the towns paying their tuition in academies. In some towns the founders of academies have provided for free secondary instruction to all the children of these towns. After this year, there-

fore, a good high school education will be required for entrance to all normal schools, only one class will be admitted and graduated each year, and all the work of all courses will be made as strictly professional as possible. The aim will be to teach the history, the philosophy, the science, the art of teaching as applied to every subject discussed, and not primarily to teach the subject-matter itself. Three of the normal schools have offered to college graduates and others of advanced training short courses in the methods of teaching special subjects, such as classics, modern languages, science, etc., particularly in the secondary schools. Several of the colleges in the State have provided for the teaching of pedagogy by special instruction, or by the professors, each in his own field, or by both, and increasing interest is felt among the best teachers everywhere in the success of these and all efforts to raise the level of the teachers' profession.

For some time there has been an increase in the number of women, with a decrease in the number of men teachers in the public schools. At the same time the average salaries of the men have increased, while the women's have slightly decreased, owing doubtless to the fact that large numbers of young women are still entering upon teaching temporarily, with little preparation. It is a great misfortune that larger numbers of young men of first-class ability and generous education are not drawn into the service of the schools, but this will not happen until the election of teachers is entirely removed from political influences, and the standard of scholarship and professional ability is raised. It is nothing short of a calamity that about fifteen hundred raw recruits annually enter the corps of public school teachers in this State, and that one-half of all the teachers have had no systematic instruction for their profession. If proper requirements were made imperative, and with an increase of the school fund to aid the poorer towns, there were established a State examination and certification of teachers, the supply would no longer exceed the demand, salaries of teachers would rise to the level paid for all other professional service, and men and women of the best ability and training would be found in the schools in constantly increasing numbers.

Notwithstanding all that remains to be done, the Board

believes that the State has never had in its service before a teaching force so thoroughly alive to improvement, so devoted to the highest interests of the community, so full of intelligent discussion and ambition, as to-day. Besides the great State and county associations, thirty local and voluntary associations in the State are reported, and numberless clubs and conferences for study and discussion are formed. Twenty-nine teachers' institutes, at the expense of the State, and under the direction of the secretary of the Board, have been held this year, and sixteen institutes for school committees and superintendents. At these meetings permanent organizations have been formed and future meetings have been arranged. A series of conferences of teachers in the secondary schools has been held in Boston, at which good numbers have discussed the best methods of teaching high school subjects. During the entire year special attention has been given to the courses of study and the method of instruction in high schools.

Citizens of every creed and party may well take pride in such signs of loyalty to the public school system as the following facts show : —

May 1, 1893, the amount of money raised by taxation for the support of the schools amounted to \$9,663,707.49; for each child in the State between the ages of five and fifteen years, \$24.77. The State school fund now amounts to \$3,665,761.88, with an income of \$149,245.27. One-half of this fund is used to pay general educational expenses, and one-half to aid the small towns whose taxable property does not exceed \$3,000,000 in supporting their public schools. The income paid to these towns is distributed to them in proportion to their lack of ability to help themselves; but it is not sufficient and should be increased.

The average length of the school year is eight months and thirteen days. The average attendance is 90 per cent., based upon the average membership.

New care is everywhere exercised in building school-houses with more intelligent ideas of comfort, health and beauty.

Kindergartens are increasing; the grammar schools, in more frequent promotions and more active criticism of the courses of study, reveal a vigorous life; and the high schools report 1,100 more pupils than last year, — in all, 28,582.

Interest in manual training grows, and the event of the year in this department is the opening of Boston's great school.

Through the direct aid of the State, the small towns, as well as the cities and large towns, have been able to supply themselves with skilled supervision for the schools, until nearly 90 per cent. of all the school children of the State are under such supervision.

To the great value of the Massachusetts educational exhibit at the World's Fair the most gratifying proofs are constantly received, and the Board has already urged the importance of securing this exhibit as the nucleus of a pedagogical museum. The State is deeply indebted to the gentlemen who generously rendered invaluable service on the committee which prepared the exhibit, and to those who took charge of it in Chicago.

This year will be memorable in the history of the Board as the last in the long service of its eminent secretary. For seventeen years Dr. Dickinson has devoted himself untiringly to maintaining the standards of education within the State, and his name is a familiar one beyond its borders. His salary has been small, his earnestness great. In the discharge of his duties nothing has been counted petty, laborious or distasteful. He has inspected schools, made himself acquainted with teachers, organized and addressed institutes, interviewed legislators. He has watched every channel of influence which might, in his judgment, increase the power of the normal schools. The Board here records its sense of the value to the State of Dr. Dickinson's long period of service and unites in praising his public spirit, his faithfulness to his ideals, and his persistent energy in carrying out his convictions.

ALICE FREEMAN PALMER,
for the Board.

IN BOARD OF EDUCATION, Dec. 7, 1893.

Approved and adopted as the report of the Board.

ELIJAH B. STODDARD, *Chairman pro tempore.*
C. B. TILLINGHAST, *Clerk.*

Boston, Dec. 31, 1893.

REPORTS OF VISITORS

OF THE

NORMAL SCHOOLS.

STATE NORMAL SCHOOL, BRIDGEWATER.

ALBERT G. BOYDEN, PRINCIPAL.

INSTRUCTORS.

ALBERT GARDNER BOYDEN, A.M., Educational Study of Man, including the Study of the Body, of the Mind, Science and Art of Teaching, School Organization, School Government, School Laws of Massachusetts and History of Education; FRANZ HEINRICH KIRMAYER, Latin, Greek, French, German; ARTHUR CLARKE BOYDEN, A.M., Chemistry, Mineralogy, Zoölogy, Geology, History and Civil Polity; WILLIAM DUNHAM JACKSON, Botany, Physics, English Literature, Advanced Algebra and Geometry; FRANK FULLER MURDOCK, Geography, Physiology and Hygiene, Physical Training; HARLAN PAGE SHAW, Physical Science, Industrial Laboratory; FRANK ELLIS GURNEY, Classics, Astronomy; ISABELLA SARA HORNE, Vocal Culture and Reading; CLARA COFFIN PRINCE, Vocal Music, Algebra, Geometry; FANNIE AMANDA COMSTOCK, Arithmetic, Rhetoric, Botany; EMMA CURTIS FISHER, Elementary English, Grammar, Geometry; ELIZABETH HELEN PERRY, Drawing; BESSIE LOUISE BARNES, Assistant Instructor in Physical Training; Model School, LILLIAN ANDERSON HICKS, Principal, CHARLOTTE LOUISE VOIGT, MARTHA WILLIAMS ALDEN, FLORA MAY STUART, ALICE MAY WORMWOOD; Kindergarten, ANNE MORGAN WELLS.

The statistics for the fifty-third school year, ending Aug. 31, 1893, are as follows:—

TERMS BEGAN SEPT. 8, 1892, AND FEB. 9, 1893.	FIRST TERM.			SECOND TERM.			FOR THE YEAR.		
	Men.	Women.	Total.	Men.	Women.	Total.	Men.	Women.	Total.
Members, . . .	50	185	235	53	186	239	58	214	272
Entering Classes, . .	13	56	69	8	29	37	21	85	106
Graduates, . . .	3	13	16	16	63	79	19	76	95

The whole number of students who have been members of the school is 3,907, — 1,158 men, 2,749 women.

The number who have received certificates or diplomas is 2,427, — 742 men, 1,685 women; 178 of whom have graduated from the four-years course, — 101 men, 77 women.

Of the 272 members of the school for this year, Plymouth County sent 83; Norfolk, 47; Bristol, 30; Middlesex, 21; Essex, 14; Worcester, 13; Barnstable, 10; Suffolk, 8; Nantucket, 5; Franklin, 4; Hampshire, 3; Berkshire, 1; the State of New Hampshire, 18; Maine, 6; Rhode Island, 2; Vermont, 2; New York, 2; South Carolina, 1; Nova Scotia, 1; and Jamaica, W. I., 1. Total from Massachusetts, 12 counties and 94 towns, 239; other States and countries, 33.

The number of students during the year pursuing the special course has been 7, of whom two were college graduates; the four-years course, 80, — 36 men, 44 women; the number in the intermediate course, 17; in the two-years course, 168.

The distribution of the students the first term was as follows: special course, 2; four-years course, 73; intermediate course, 17; two-years course, senior class, 17; sub-senior class, 67; ex-junior class, 17; junior class, 42. The distribution during the second term: special course, 7; four-years course, 75; intermediate course, 13; two-years course, senior class, 66; sub-senior class, 19; ex-junior class, 34; junior class, 25.

The average age of those admitted during the year was 19 years 3 months; of the men, 19 years 6 months; of the women, 19 years 2 months.

Of the 106 admitted, 3 came from college, 3 from normal schools, 80 from high schools (54 graduates, 26 under-graduates), 6 from grammar schools, 12 from academies and private schools, 2 from business college; of these, 25 had taught.

The occupations of the fathers of those admitted were given as follows: mechanics, 33; farmers, 18; merchants and traders, 11; book-keepers and clerks, 8; teachers and professional men, 6; manufacturers, 4; seamen, 4; laborers, 4; superintendents and foremen, 3; miscellaneous, 4; not given, 11.

Of the 106 pupils admitted during the year, Bridgewater and Brockton sent 9 each; Fall River, Plymouth and Quincy, 4 each; Braintree, Hyde Park, Medway and Nantucket, 3 each; Berlin, Boston, Cambridge, Chatham, Manchester, Middleborough and Worcester, 2 each; Abington, Ashburnham, Athol, Attleborough, Berkley, Billerica, Bourne, Canton, Carver, Dighton, Duxbury, Fairhaven, Gloucester, Greenfield, Hanson, Hatfield, Kingston, Lancaster, Leominster, Malden, Marblehead, Maynard, Medford, Pittsfield, Rehoboth, Rockland, Rutland, Salem, Shirley, Taunton, Wareham, Westborough, West Bridgewater, Westminster, Westport and

Weymouth, 1 each; New Hampshire, 5; Maine, 4; New York, 1; Rhode Island, 1; South Carolina, 1; Nova Scotia, 1; Jamaica, W. I., 1.

Schools from which Students came during the last Ten Years.

YEAR.	High Schools.	Graduates of High Schools.	Undergraduates of High Schools.	Academies and Private Schools.	Colleges.	Normal Schools.	U. S. Naval Academy.	Grammar Schools.	Ungraded Schools.	Total.
1883-84, . . .	53	37	16	9	4	1	-	16	1	84
1884-85, . . .	50	30	20	17	1	2	-	17	5	92
1885-86, . . .	66	36	30	12	4	3	1	9	1	96
1886-87, . . .	71	46	25	16	2	2	-	6	3	101
1887-88, . . .	68	41	27	18	2	2	-	10	0	100
First five years, .	308	190	118	72	13	10	-	58	10	473
1888-89, . . .	85	66	19	15	2	4	-	5	0	111
1889-90, . . .	78	61	17	13	3	1	-	7	0	102
1890-91, . . .	81	62	19	11	3	1	-	2	0	98
1891-92, . . .	98	80	18	11	1	5	-	5	0	120
1892-93, . . .	80	54	26	14	3	3	-	6	0	106
Second five years, .	422	323	99	64	12	14	-	25	0	537

Average number admitted annually, first five years, 95; from high schools, 65 per cent.; academies and private schools, 15 per cent.; colleges, 3 per cent.; normal schools, 2 per cent.; grammar schools, 12 per cent.; ungraded schools, 2 per cent.

Average number admitted annually, second five years, 107; from high schools, 79 per cent.; academies and private schools, 12 per cent.; colleges, 2 per cent.; normal schools, 3 per cent.; grammar schools, 4 per cent.; ungraded schools, none.

These statistics show that the school has numbered 272 students, ten more than in any previous year, representing twelve counties and ninety-four towns in Massachusetts and six other

States. Ninety-five have graduated, nineteen more than ever before in one year, of whom fifteen finished the four-years course.

As usual, demands for skilled teachers far in excess of the supply to meet them come to Bridgewater from all parts of this Commonwealth, from many other States, and from all grades of schools. But, most encouraging of all, it appears that the students are entering the normal school with better preparation than they presented formerly. It is also expected that the new requirements for admission, which go into effect next year, will distinctly increase the working power of the students in every direction.

This school is instructing not only its students, but a constantly increasing number of teachers, members of school committees and superintendents who come to study its methods in all departments.

Last May the semi-annual meeting of the Council of Presidents of State Normal Schools of New York was held at the school. Ten of the eleven presidents spent two days in observing and discussing its work.

Bridgewater is also rendering a substantial public service by conducting a series of experiments on graded courses of study for primary and grammar schools. These courses it tests in its model school, and when perfected they are furnished on request to teachers and superintendents everywhere. A course of this sort in nature study, prepared by Mr. A. C. Boyden, and adapted to the fall, winter and spring, has been called for very widely. Mr. Boyden devotes his Saturdays and many evenings besides in aiding teachers of these studies in different cities. Mr. Murdock is doing similar work in geography. Miss Perry has prepared courses in drawing for schools of all grades, and these have been tested by use in the model school, and in the Bridgewater High School, under her direction.

Perhaps the most important single event of the year is the establishment of a kindergarten. This has been done in spite of many difficulties. There was no room for this addition, and it was therefore decided to give up temporarily the general library during the morning for the kindergarten, since it seemed impossible to longer delay providing this essential training for the intending teachers.

The model school had 175 pupils when it came into the new building in 1891. It now numbers 220, including twenty in the kindergarten, and the primary rooms are crowded. All the grades of the model school are used constantly for observation and practice. Indeed, several normal students have remained an extra term to teach under guidance, with great profit to themselves and to their future schools. It is clear that ample opportunities for such practical experience in meeting the actual problems of the school-room are essential to any adequate training of our teachers. But it is also evident that two hundred and fifty persons need a far larger model school for practice than anything we have at present. The kindergarten should be doubled, and a high school should be added at once. The lack of room is the only hindrance.

We make therefore the following recommendations:—

1. That a second teacher should be appointed in the kindergarten.

2. That another section should be added to the south end of the school building for the enlargement of the model school, the kindergarten, the high school and the industrial departments. This can be done without architecturally interfering with the other interests of the school, and is essential to the development of the school.

3. That coal pockets should be constructed under the driveway adjacent to and opening into the boiler-house. The capacity of the heating plant was doubled when the new school was built, but no increase of coal storage was provided. The coal-bins under the boarding hall are inconvenient of access and inadequate. For the sake of saving labor, and of being able to buy coal in quantities and to the best advantage, these changes should be made at once.

4. That a separate laundry should be built on the lot south of the school and fitted with suitable machinery, and that the room which the laundry has hitherto occupied in the basement of Normal Hall should be added to the cooking department.

5. That the northern half of the first floor in the east wing of Normal Hall should be converted into a dining-room.

6. That another hall for students' rooms should be built as early as possible. All available rooms are full, students are

obliged to board at a distance, and further provision for living is much needed.

It may not be possible to carry out all these recommendations in a single year, but it is the plain duty of the State to promptly carry the existing normal schools to a higher degree of perfection than they have yet reached.

ALICE FREEMAN PALMER.
GEORGE I. ALDRICH.

STATE NORMAL SCHOOL, FRAMINGHAM.

MISS ELLEN HYDE, PRINCIPAL.

INSTRUCTORS.

Miss ELLEN HYDE, Psychology, Principles and Methods of Teaching; Miss AMELIA DAVIS, Mathematics and Astronomy; Miss SARAH E. PRATT, Physics, Geography, History of Education, Latin and Book-keeping; Miss SUSAN J. HART, Natural Sciences; Miss M. ELIZABETH HOLBROOK, History and Civil Polity; Miss MARY E. MOORE, English Language and Literature; Miss LILLIAN ORDWAY, English Language and Latin; Miss HENRIETTA L. GRAVES, Drawing and Geology; Miss JANE E. IRESON, Elocution; Miss MARY H. STEVENS, French; Mr. W. S. TILDEN, Singing; Miss MARY E. TRASK, Critic of Teaching; Mrs. ADELIA M. PARKER, Critic of Teaching; Miss AUGUSTA BARBER, Practice School, Primary Department; Miss J. ANGELINE SMITH, Practice School, Grammar Department; Miss NELLIE A. DALE, Practice School, Intermediate Department; Miss ANNA J. BRADLEY, Sloyd.

The discipline and methods of the school have never been more thoroughly tested than in this last year, when, on account of ill-health, Miss Ellen Hyde, the principal, was obliged in February to go to California, with the expectation of returning in the summer. But her physicians so strongly insisted upon a longer period of rest for her that the Board granted her leave of absence until January.

Though the school has missed her daily presence, her organizing activities and the inspiration of her teaching, yet for years she has set before the school such a high standard of devotion to work, and has so penetrated the faculty and the pupils with enthusiasm, that everything has prospered during her absence. Each department has been so ably filled that no want of harmony and no lack in thorough teaching or administration of affairs has occurred.

Miss Amelia Davis, who has long been assistant principal, has acted as principal of the school, while the management of all outside affairs and the internal economy of the boarding-

houses has been under the wise direction of Miss Sarah E. Pratt. Both ladies deserve the highest praise for their admirable management. They even relinquished part of their summer vacation to superintend necessary repairs in the buildings.

Others of the faculty have also kindly assisted in various ways, and Dr. Dickinson last spring gave a valuable course of lectures on methods to the senior class.

We regret to record the resignation of Miss Celeste E. Bush, after four years of rarely excellent teaching in history, civil polity, physiology, etc. Her influence upon the girls in moulding their characters was very valuable. We entreated her to remain with us, but her family claimed her sympathies and attention.

Her classes have been assigned to Miss M. E. Holbrook, whose work in turn has been given to Miss Mary C. Moore, a new teacher at Framingham, but of well-tried ability and long experience in other schools, and a special student of the Harvard Annex. Miss Graves has taken Miss Lacey's place as teacher of drawing, who has accepted an excellent position elsewhere.

Lectures on various and important subjects have been given by Miss Katharine Stone, Miss Edna Dean Proctor, Mrs. Dita H. Kinney, Mrs. Hopkins, Mrs. Lydia Noble, Mrs. Elizabeth Brown, Mrs. W. W. Goodwin, Mrs. E. D. Cheney, Rev. Mr. Latimer, Rev. Edward G. Porter, Mr. G. I. Aldrich, Mr. G. A. Walton, Mr. J. T. Prince, Mr. S. W. Davis, Mr. E. Charlton Black, Mr. Gustaf Laarson, Mr. Henry T. Bailey and Hon. J. W. Dickinson. All but three of the lectures were free gifts.

Dr. Miner's withdrawal from the Board of Education was like a personal loss to the school, for he had always been its steadfast friend, devoted to its educational and financial interests, cordial and inspiring in his intercourse with teachers and pupils.

In the summer the Johnson system of automatic regulation of temperature was put into May Hall, and promises to prove of as much benefit to the school at Framingham as it already is to the Bridgewater school.

The fact that we have two small boarding halls instead of one large one necessarily increases our expenses. At the same time we gain in refinement of manner of living, in closer personal intimacy of teacher and pupil, and in the general advantages of a home life. We think that the character of our girls is

directly improved by their living in two houses. Much is done in the way of social, friendly intercourse. Saturday evening the girls sew for some charity as some one reads aloud, and then all have a gymnastic frolic or a dance or games before retiring. The classes take turns in giving to one another receptions and tableaux, all without any expense. Sunday is a very happy day of church attendance and home quiet and pleasantness.

We speak of these minor points because their influence goes far in transforming good and bright girls into accomplished and sympathetic teachers; nor should we hesitate to own that good manners help toward success in becoming skilled instructors, who can arouse enthusiasm in their pupils. The cup of bromo, furnished at cost each day to the day pupils who are not boarders, bears its part, too, in maintaining their health and good spirits.

With due attention to such details the greater work of broadening and elevating the curriculum of study has also steadily advanced. No more important step has been taken in regard to it than the decision of the Board of Education last June, which permits instruction in normal work to be given to college graduates and to those of equivalent education by means of special courses in our normal school. Such a decision dignifies pedagogy as an art and places it in its true relation to liberal culture.

The statistics of the school are as follows:—

Number admitted: September, 1892, 63; February, 1893, 10; total, 73.

Number graduated: January, 1893, 6; June, 1893, 23; total, 29.

Whole number of pupils for the year 1892–93, 147.

Average age of those admitted: September, 1892, 19 years; February, 1893, 19 years, 3 months; 2 unknown.

Number of graduates of high schools: September, 1892, 44; February, 1893, 3; total, 47.

Occupations of parents: farmers, 29; mechanics (of all kinds), 47; merchants (of all grades), 14; manufacturers, 4; professional, 6; real estate and insurance agents, 5; railroad men, conductors and ticket agents, 5; clerks, 3; miscellaneous, 17; unknown, 17; total, 147.

Residences of pupils: Massachusetts,—Berkshire County, 2; Bristol County, 3; Dukes County, 4; Essex County, 3; Franklin

County, 3; Middlesex County, 58; Norfolk County, 8; Plymouth County, 1; Suffolk County, 1; Worcester County, 32, — 115. Other States, — Connecticut, 8; Illinois, 1; Indiana, 1; Maine, 6; Missouri, 1; New Hampshire, 10; New York, 5; Pennsylvania, 2; Vermont, 2, — 31; unknown, 1; total, 147.

KATE GANNET WELLS.
GEORGE H. CONLEY.

STATE NORMAL SCHOOL, SALEM.

DANIEL B. HAGAR, PRINCIPAL.

INSTRUCTORS.

DANIEL B. HAGAR, A.M., Ph. D., Psychology Applied to Principles and Methods of Teaching, School Management, History of Education, School Laws of Massachusetts, Civil Government, Advanced Latin, and General Exercises; ELLEN M. DODGE, Mental Philosophy, English Literature and German; CAROLINE J. COLE, English Literature, General History, Astronomy, Geography and English Composition; SOPHIA O. DRIVER, Latin, English Grammar, Geology and English Composition; HARRIET L. MARTIN, Algebra, Geometry, Advanced Arithmetic, Book-keeping and English Composition; E. ADELAIDE TOWLE, Physiology, Object Lessons and English Composition; MARY E. GODDEN, United States History, Grammar and English Composition; HARRIET D. ALLEN, Reading, Elocution, Physical Culture, English Composition and School Records; ABBIE E. RICHARDS, Arithmetic, Geography, Advanced Geometry and English Composition; M. JEANNETTE BROOKINGS, Arithmetic, Geography and Penmanship; JESSIE P. LEAROYD, Botany, French and English Composition; CHARLES E. ADAMS, Physics, Chemistry, Zoölogy and Manual Training; CHARLES F. WHITNEY, Drawing; GISH GARWOOD, Vocal Music.

There is little to report in the way of change in this school. The board of teachers remains the same. The work of the year has gone forward harmoniously and prosperously. The patronage of the school continues large. It draws its pupils from a large and populous area, and renders a most important service in raising up a body of trained teachers for the north-eastern section of the State.

In view of the position of the school and the work done by it, the visitors in their report last year recommended that steps be taken to secure a new building, equipped with modern facilities for normal school work. This recommendation received the endorsement of the full Board, and the subject was presented to the Legislature, through the Committee on Education, and an appropriation was obtained of \$200,000, in addition to the proceeds to be derived from the sale of the present prop-

erty of the school. A fine lot has been purchased, in South Salem, bordering on Lafayette Street and Loring Avenue, containing one hundred and fifty-six thousand six hundred square feet. It is high land, commanding a fine outlook, and is well situated with reference to transportation. Mr. J. Philipp Rinn has been engaged as architect. The summer has been employed in studying and perfecting plans. That work is now completed. The Governor and Council have given their approval and the contracts have been awarded to Messrs. Balcomb & Peterson of Salem. The building will doubtless be ready for occupancy by the autumn of 1895, and will be the largest and finest structure of the kind in the Commonwealth.

STATISTICS.

1. The whole number of pupils belonging to the school during the year was 201. Of this number, Essex County sent 100; Middlesex, 61; Suffolk, 6; Hampshire, Norfolk, Plymouth and Worcester, 1 each. The State of Maine sent 6; New Hampshire, 16; Vermont, 5; Connecticut, 1; and the District of Columbia, 2.

2. The number present during the term which closed Jan. 24, 1893, was 171; the number during the term which closed June 27, 1893, was 161. The whole number of pupils in the school since its opening in September, 1854, is 3,890.

3. The number graduated from the regular course Jan. 24, 1893, was 23; the number graduated from the same course June 27, 1893, was 30. The whole number of graduates of the seventy-four classes is 1,957. The number graduated from the advanced course June 27, 1893, was 4.

4. The number that entered the school Sept. 6, 1892, was 56; the number that entered Feb. 7, 1893, was 26.

5. The average age of the class admitted Sept. 6, 1892, was 18.42 years; of the class admitted Feb. 7, 1893, 19.09 years.

6. Of the 56 pupils admitted in September, 1892, 44 came from high schools (30 graduates, 14 undergraduates), 5 from grammar schools, 6 from academies and 1 from a college. Of the 26 admitted in February, 1893, 17 came from high schools (10 graduates, 7 undergraduates), 3 from grammar schools, 2 from academies, 3 from district schools and 1 from a private tutor.

7. The fathers of the 82 pupils admitted during the year are by occupation as follows: mechanics, 37; farmers, 20; professional men, 5; merchants, 4; manufacturer, 1; miscellaneous, 13. The occupation of 1 is unknown and 1 has no occupation.

8. Of the class admitted in September, 1892, 10 had taught school; of the class admitted in February, 1893, 7 had taught.

9. The number of pupils connected with each of the classes during the first term of the year was as follows: special student, 1; advanced class, 10; class A (senior), 27; class B, 38; class C, 29; class D, 66. The number during the second term was: special student, 1; advanced class, 10; class A (senior), 38; class B, 26; class C, 52; class D, 34.

10. Of the 82 pupils admitted during the year, Salem sent 6; Beverly, 5; Cambridge, Everett, Melrose, Reading and Wakefield, 4 each; Georgetown and Somerville, 3 each; Boston, Groveland, Lynn, Methuen, Peabody, Tewksbury and Wilmington, 2 each; Acton, Amherst, Billerica, Boxford, Chelsea, Cliftondale, Danvers, Essex, Fitchburg, Gloucester, Lawrence, Malden, Marblehead, Nahant, Newburyport, Stoneham, Townsend, Wenham and Winchester, 1 each; Maine sent 3; New Hampshire, 5; Vermont, 3; and the District of Columbia, 1.

11. During the year 124 books were added to the general library, 111 by purchase and 13 by gift. The text-book library was increased by the purchase of 96 books.

E. H. CAPEN.

GEO. I. ALDRICH.

STATE NORMAL SCHOOL, WESTFIELD.

JAMES C. GREENOUGH, PRINCIPAL.

INSTRUCTORS.

JAMES C. GREENOUGH, A.M., Psychology, Didactics, Civil Polity, Rhetoric; FREDERICK W. STAEBNER, Physiology, Geology, Mineralogy, Zoölogy, Geography, Botany, German; FRANK W. SMITH, A.M., Latin, General History; ALADINE C. LONGDEN, A.M., Physics, Chemistry, Arithmetic, Trigonometry and Surveying, Composition; ELVIRA CARVER, Geography, English Literature, Algebra; LAURA C. HARDING, Geometry, Astronomy, Book-keeping, Reading, Vocal Music, French, Composition; FRANCES C. GAYLORD, Geometry, Grammar, History, Composition; ANNIE N. SINCLAIR, Drawing, Penmanship; FLORA J. WHITE, Gymnastics, Sloyd; Training School; ISABEL W. GLADWIN, Lower Grammar Department; E. ABBE CLARK, Intermediate Department; EUNICE M. BEEBE, Primary Department; LOUISE M. STEINWEG, Kindergarten.

The year of the normal school now drawing to a close has been one of good, quiet work, and of some progress. The school is now reaping the benefit of its new quarters and ample equipment, in the ability of both teachers and pupils to perform better work, and with greater ease and satisfaction to all concerned. In the whole number of pupils in attendance during the year, and in the number of new admissions to the school, there has been a slight increase over the previous year, although the number of graduates was less than one year ago.

In the normal school proper there has been one new teacher employed, Miss Flora J. White, a graduate of this school, who has had successful experience in the schools of Springfield and other places, also in South Africa. Miss White has charge of the instruction in gymnastics and sloyd, in both of which branches she has received special training. In the ample and well-equipped gymnasium the pupils now receive systematic instruction and practice in physical culture, exercises in which

they take great delight, and from which they will, we think, receive much benefit in their bodily and mental health and in their general personal bearing.

In manual training, or sloyd, the work has thus far been optional on the part of the pupils. But there has been no lack of volunteers, and many pupils now engage in the work with keen enjoyment and with manifest improvement.

In the training school an additional teacher has also been employed, Miss E. Abbe Clark, a graduate of the normal school at New Britain, Conn., who came to us recommended for the good work she had done in the training department of that institution. Our training school, comprising a kindergarten, primary, intermediate and lower grammar grades, is now fully organized and in successful operation. As a field for observation and practice by the normal pupils, under the direction of skilful and successful teachers, and as affording an opportunity for the normal teachers to observe and test the ability and success of their normal pupils in the work of actual teaching, it is an added feature of our school of great interest and promise.

The last report of the visitors spoke of the unfinished condition of the school grounds. During the present year the grading has been completed, and about eight hundred feet of iron fence, of substantial character and good pattern, erected, as line fence between the school lot and the lands adjoining on the easterly and westerly sides. These grounds now constitute a pleasant feature of the school premises, and will afford excellent facilities for the pupils to obtain a variety of out-door recreation and physical culture.

The boarding hall has received some needed attention. The exterior woodwork of the building has been repainted; the parlor and waiting rooms refurnished; several rooms replastered and others papered; some furniture purchased for the dining room and kitchen, the kitchen range reset and a brick oven erected; and iron bedsteads and some new bedding put into several of the students' rooms. New timbers have also been put in to a considerable portion of the piazzas of the building.

During the year the school has been addressed by Prof. Charles Sprague Smith of New York, Prof. G. M. Wahl of

Williams College, Principal E. A. Sheldon of the State Normal School at Oswego, N. Y., Prof. S. A. Weaver of Westfield, and Mr. A. W. Edson, agent of the State Board of Education.

The usual statistics are appended.

M. B. WHITNEY,
A. P. STONE,

Visitors.

WESTFIELD, Dec. 7, 1893.

Statistics of Westfield Normal School, 1892-93.

I.

	FALL TERM.			SPRING TERM.			FOR THE YEAR.		
	Young Men.	Young Women.	Totals.	Young Men.	Young Women.	Totals.	Young Men.	Young Women.	Totals.
Number of pupils in school, . . .	5	125	130	5	128	133	6	149	155
Number of pupils in entering classes, .	1	60	61	-	19	19	1	79	80
Number of graduates, . . .	-	-	-	1	26	27	1	26	27
Average age of enterers, . . .	Yrs. Mos. 21 0.9	Yrs. Mos. 18 6.6	Yrs. Mos. 18 7.1	Yrs. Mos. -	Yrs. Mos. 19 3.9	Yrs. Mos. 19 3.9	Yrs. Mos. 21 0.9	Yrs. Mos. 18 8.8	Yrs. Mos. 18 9.2
Average age of graduates, . . .	*	*	*	20 10.4	21 4.9	21 4.6	20 10.4	21 4.9	21 4.6
Number of enterers who had taught, .	1	16	17	-	9	9	1	25	26
Number of pupils receiving State aid, .	3	37	40	3	69	72	4	74	78

* The winter class and the summer class received their diplomas together in June.

Statistics of Westfield Normal School, 1892-93 — Concluded.

II.

NUMBER OF STATES, ETC., REPRESENTED BY PUPILS.	Number of Pupils from each State represented.		Number of Pupils from each County of Massa- chusetts represented.		Occupations of Fathers of Enters.		Number of Enters from High Schools, Grammar Schools, etc.		
States,	11	Connecticut,	4	Barnstable,	1	Factory officials,	8	Academies,	4
Towns and cities,	70	District of Co- lumbia,	1	Berkshire,	23	Farmers,	26	Colleges,	2
Counties in Massachusetts,	9	Massachusetts,	134	Essex,	1	Manufacturers,	2	District schools,	10
Families,	150	Nebraska,	1	Franklin,	16	Merchants,	8	Grammar schools,	7
		New Hampshire,	2	Hampden,	64	Professional men,	2	High schools,	40
		New Jersey,	2	Hampshire,	15	Skilled workmen,	15	Normal and Train- ing schools,	4
		New York,	2	Norfolk,	1	Unskilled workmen,	4	Unclassified,	13
		Rhode Island,	2	Suffolk,	2	Unclassified,	15	High school grad- uates,	29
		Tennessee,	1	Worcester,	11			Graduates of acad- emies,	3
		Vermont,	5						
		Virginia,	1						

Membership, Admissions and Graduates of the Westfield Normal School for Twenty-five Years, from 1869 to 1893, inclusive.

III.

YEAR.	Whole Number.	Admissions.	Graduates.
1869,	172	79	50
1870,	167	73	55
1871,	134	61	38
1872,	162	81	41
1873,	147	64	53
1874,	204	92	39
1875,	176	97	42
1876,	177	75	45
1877,	170	72	53
1878,	135	50	44
1879,	133	62	34
1880,	115	53	22
1881,	120	58	25
1882,	136	66	29
1883,	134	65	32
1884,	142	79	23
1885,	155	66	19
1886,	156	63	44
1887,	147	76	27
1888,	153	71	26
1889,	168	88	39
1890,	142	66	25
1891,	139	70	24
1892,	147	67	33
1893,	155	80	27

STATE NORMAL SCHOOL, WORCESTER.

E. HARLOW RUSSELL, PRINCIPAL.

INSTRUCTORS.

E. HARLOW RUSSELL, Principles of Education, Theory and Art of Teaching, Hygiene, Reading, Physical Exercises; HENRY W. BROWN, Psychology, English Grammar and Literature, German; CHARLES F. ADAMS, Arithmetic, Geometry, Geography, Geology, Physics, News; Miss REBECCA JONES, Elementary Methods, Supervision of Apprentices, Sewing; Miss ELLEN M. HASKELL, History, Civil Government, English, Reading, History of Education; Miss JULIET PORTER (Librarian), Physiology, Geography, Arithmetic, Algebra, Geometry; Miss HELEN F. MARSH, Music, Drawing; Miss ARABELLA H. TUCKER, Botany, English Grammar, Penmanship, Gymnastics; Mrs. MARION J. SUMNER, Choral Singing; Miss E. LOUISE RICHARDS, Kindergartner; Miss OLIVE RUSSELL, Assistant Kindergartner; THADDEUS L. BOLTON, Assistant in Psychology.

INTRODUCTORY.

This school has undergone no marked change during the past year. The instructors have manifested their accustomed zeal, and the students have shown their usual diligence. The visitors have noticed, as heretofore, an unflagging spirit of improvement, but this has been exhibited, for the most part, in minor matters that do not call for enumeration. It may be mentioned, however, that considerable accessions have been made to the library, and that the children's class or kindergarten has taken permanent shape.

The new assistant in psychology is rendering valuable service by working up the large store of material relating to the nature of children, which has been gathered by the students during the past eight years.

THE NEW CONDITIONS OF ADMISSION.

The proposed raising of the standard to the point of requiring for admission a high school course, or its equivalent, will

undoubtedly improve the scholarship and general intellectual tone of the students. In fact, the mere announcement of the change contemplated appears to have had already some favorable effect. It will naturally tend to make intending candidates pause and consider, before entering upon so long a course of preparation, whether they probably possess the native ability and fitness requisite for success as teachers. The function of the normal school, however, will remain as heretofore, namely, by careful testing to select sound and promising material, and then, by proper training, theoretical and practical, to enrich and fashion this material for the end in view. Bearing in mind this twofold aim, the policy of this school has been to prescribe and require with great reserve and caution, but, on the other hand, to suggest and encourage to the utmost. Where the work to be done in a normal school is minutely specified and rigidly insisted on, there is, of course, less opportunity and less incentive for the exercise of originality and inventiveness than would be the case if freer play were allowed to the natural capacities and bent of the student. For, while practically all pupils may be counted on for obedience in doing what is definitely set them to do, only a part would of themselves show the initiative and spirit that count for so much in actual teaching. Hence a minimum of requirements and a maximum of opportunities placed before the student put him in the best position to show to his instructors what stuff he is made of, what his native resources are, and how he is likely to handle himself as a teacher.

THE GRADUATES.

The numbers graduated here are increasingly inadequate to supply the demand for teachers. Twice as many could easily find positions each year. But the ruling rates of compensation are low, a fact which suggests how large a proportion of teachers, especially in rural districts, are drawn from local sources and are employed because they are convenient and cheap.

The visitors note with increasing satisfaction the loyal spirit shown by the graduates of this school. By hundreds of letters to the principal, by frequent visits to the school, by social class meetings and by the great annual reunion in June, which always crowds our largest hall to overflowing, they testify with

almost literal unanimity to the high and lasting regard in which they hold the institution that gave them their training. And there is no time when the school does not contain a considerable number of the younger sisters of past graduates, encouraged to come here (and in many cases supported, wholly or in part) by those who thus remember and value what the school did for them. And it goes further than this. They have shown themselves ready to render active personal assistance in carrying on investigations and collecting facts and statistics in furtherance of the study of children, which has given such distinction to this school. And they have voluntarily taxed their slender incomes to place at the disposal of the school authorities a fund of more than fifteen hundred dollars for the same object. This is a substantial and most creditable token of their appreciation of the bounty of the State in providing them with their professional training, and the visitors take pride in placing the act on record as a part of this report.

REPAIRS AND ENLARGEMENTS.

Within a year or two at most, as intimated in last year's report, somewhat extensive repairs will have to be made in our main building. Floors need to be relaid and walls and ceilings replastered, this being the twentieth year of continuous use with no considerable repairs. Details and estimates will be duly laid before the Legislature.

We shall also soon need an additional school building, to serve for a gymnasium, for a place of assembly for large gatherings, and perhaps for a practice school of two or three grades. Such a structure could be economically built on the sloping ground to the south of the present main building, under most favorable conditions of light, space and accessibility.

ACKNOWLEDGMENTS.

Our special thanks are due to G. Stanley Hall, LL.D., President of Clark University, who, at considerable personal inconvenience, cheerfully accepted our invitation and gave, for the second time, our anniversary address.

Other addresses of interest and value, as well as various acceptable gifts, are enumerated in our annual catalogue and register for the current year.

STATISTICS.

1. Number of normal students first (fall) term, 154; second (spring) term, 149; whole number for the year, 187.

2. Numbers in entering classes: in September, 1892, 41; in February, 1893, 18; total, 59.

3. Average age of pupils admitted: in September, 1892, 19 years, 2 months; in February, 1893, 19 years, 7 months.

4. Residences of pupils admitted: Worcester County, 56; Middlesex County, 1; New Hampshire, 1; Vermont, 1; total, 59.

5. Occupations of pupils' parents: mechanics, 28; farmers, 8; manufacturers, 4; overseers, 4; merchants, 3; book-keeper, 1; superintendent, 1; engineers, 2; librarian, 1; salesman, 1; laborers, 6; total, 59.

6. Numbers in graduating classes: in January, 1893, 22; in June, 1893, 15; total, 37.

7. Average age of graduates: in January, 1893, 20 years, 8 months; in June, 1893, 21 years, 10 months.

8. Library: reference books reported last year, 3,160; volumes added this year, 254; total, 3,414. Text books reported last year, 4,844; volumes added this year, 81; total, 4,925. Whole number of volumes in the library, 8,339.

E. B. STODDARD.

A. P. STONE.

STATE NORMAL ART SCHOOL.

GEORGE H. BARTLETT, PRINCIPAL.

INSTRUCTORS.

MR. GEORGE H. BARTLETT, Freehand Drawing, Historic Ornament, Design and Modelling the Figure; **MR. E. W. HAMILTON**, Drawing and Painting from the Antique Figure and Life Model; **MR. ALBERT H. MUNSELL**, Drawing and Painting from the Antique Figure and Life Model, Anatomy; **MISS M. A. BAILEY**, Drawing and Painting from the Antique Figure and Life Model; **MR. A. K. CROSS**, Freehand and Instrumental Drawing; **MISS M. LOUISE FIELD**, Psychology, Principles and Methods of Teaching, History of Education, Drawing in the Public Schools, Public School Class; **MISS W. N. DRANGER**, Assistant in the Public School Class; **MR. GEORGE JEPSON**, Mechanical Drawing; **MR. HENRY D. KENDALL**, Building Construction, Architectural Design; **MISS ANNIE E. BLAKE**, Modelling in Clay and Casting; **MR. JOHN L. FRISBEE**, Ship Draughting; **MISS DERISTHE L. HOYT**, Historic Schools of Painting.

The chief event on record in the annals of our year is the exhibit of the school at the World's Columbian Exposition in Chicago, which received highest praise alike from educators and artists. It was the most complete record of the achievements of the pupils that has ever been made, ranging from the clay moulding, paper folding, contrast and likenesses in color by means of objects, etc., in the graded public school work exhibit, to grandly modelled original designs in clay, cast in plaster; copies from the antique; designs for stained glass; freehand, mechanical, architectural designs; sketches from life and nature, and original figure composition from classes B and D in oil, water color and in black and white. Casts of two large spandrils, a Japanese sketch in the round, and outdoor sketches of streets and houses treated as problems in perspective were among the most noticeable of the pupils' works.

The school made a double exhibit, one in connection with the general educational exhibit of the State and the other with the art schools of the country. It is a matter of congratulation that this exhibit is to remain intact in Boston, for it will help to

make the school recognized as an art school in the broadest sense of the word, for in proportion as we give breadth and elasticity to the school will the results flow back in increasing measure to the development of pure art and of applied design to industrial art.

There has been no change in the *personnel* of the instructors save that each year new pupil-teachers are chosen by competitive examination; two young women and one young man were thus appointed this fall. This custom acts as a stimulus to the whole class and is of immediate practical benefit to the pupil-teachers.

We say each year, and with truth, that never before has the whole school, faculty and pupils, worked more harmoniously and vigorously than in each present season. Mr. Bartlett, the principal, has the true gifts of a teacher, administrative ability and enthusiasm.

Miss Field's training of the pupils to teach in the public schools what they here learn is of great value to the scholars, for they acquire ease in the adaptation of principles and methods to public school grades.

Formerly each branch of instruction was under the care of a special teacher. Last winter a slight change was made by which pupils on completion of the obligatory work of class A are taught by the same teacher the various branches in the class or department which they enter. In this way conflict of methods is avoided, the various mediums are guided more carefully, the study from life models is increased, and the pupils find that a good teacher, even when a specialist, has an all-round knowledge of art and its various applications to pure beauty and industrial design.

As the scope of the school is broadened and larger opportunity afforded for the study of the figure and the principles of composition, our pupils will be better enabled to do their part in enriching decorative art. The wonderful beauty of the White City of Chicago, with its myriad introductions of the human figure, whether in the round or the flat, as a *motif* to "surface decoration and decorative sculpture," is fresh convincing proof of the absolute need of such study.

It should never be forgotten, however, that the school is primarily a normal school; yet each year the relation of the fine

arts to industrial art becomes more apparent, not only to artisans and manufacturers but to artists. Thus it is the province of a State art school to ever bear this relation in mind and to lead in extending the application of art to every branch of knowledge; for art, after all, is but one form of language. The graduates of such a school will win distinction, some as painters, sculptors or as draughtsmen for the constructive arts, others as designers in various special arts, while the larger number will become teachers and supervisors, as is indicated by the word "normal." For instance, out of 88 students of 1892-93, not all of whom have completed the full course, but who did not return for 1893 and 1894, one-fourth are now teachers, the rest are working in various branches of industrial art.

Such facts deepen the desire to make a longer course obligatory upon each pupil before graduation, for in proportion to the breadth of knowledge which teachers and supervisors of drawing possess, the better qualified will they be to lift public school drawing into freedom and beauty of expression, while still making it serviceable to the industries of the State.

Certain changes have been made in lighting the building by means of a special appropriation from the Legislature. On the second story the volume of light was interfered with by passing through small panes of glass and by needlessly large wooden casings. The latter have been replaced as far as possible by iron framework and large unbroken panes of glass have been substituted for the many little ones. There are now four studios where there were but two, and greater quiet and better light is obtained for each class.

Among the social but always artistic pleasures of the school are included the February Festival of tableaux, and the many afternoons in which the pupils come voluntarily to the school and devote themselves to painting. The Normal Art School Association, with its friendly midwinter meeting and its more formal public dinner in the spring, serves to increase the emulation and the good will of the pupils. At the dinners it is delightful to meet artists and superintendents who once were pupils in the school.

After twenty-five years of active service on the Board of Education, and of the chairmanship of the Art School ever since

its inception, seventeen years ago, Dr. Alonzo A. Miner has withdrawn from his position. He will ever be remembered by the school with warmest gratitude and highest respect, for he stood by it in its varying fortunes and left it only when it was second to none in the country. The resolutions of the Board are herein appended, which were adopted June 1, 1893 : —

Resolved, That on the retirement of Dr. A. A. Miner from the State Board of Education, after twenty-five years of active service, — the longest term ever held by any one member of the Board, — the Board desires to put on record its appreciation of the valuable aid Dr. Miner has rendered to the cause of education. As chairman of the Normal Art School almost from its inception Dr. Miner has skilfully carried it through the difficulties which beset its early existence, guiding its progress into the broad domain of art, especially that of industrial art. As a visitor at the Normal School, Framingham, he has always shown the same zeal and wisdom which have marked his service to the Normal Art School. In his personal relations with the Board of Education Dr. Miner has been uniformly courteous and just; interested in the widest applications of education, seldom missing a Board meeting throughout his long service.

In June the Art School gave Dr. Miner a farewell reception, its various classes bestowing upon him baskets of flowers. At the same time, Mr. Albert H. Munsell, once a pupil, now for a long time instructor in the school, presented it with an admirable life-size portrait of Dr. Miner, which hangs in the large corridor of the building.

The statistics of the school are as follows : —

Total number of students from Oct. 1, 1892, to June 29, 1893, 236, — males, 47 ; females, 189. Actual number in school at present date, 228.

Average age, 22 years.

Graduates in June, 1893 : public school class, 5 ; class in mechanical drawing, 7 ; class in industrial drawing, 9 ; total, 21.

Appointments since Oct. 1, 1892, of past pupils to be teachers and supervisors of drawing, 30.

Number of students from the several counties in the State, 1891-92 : Suffolk, 85 ; Middlesex, 86 ; Essex, 15 ; Norfolk, 18 ; Worcester, 8 ; Bristol, 9 ; Plymouth, 6 ; Berkshire, 2 ; Nantucket, 1 ;

Franklin, 1 ; Hampden, 1 ; total, 232. Students from other States are distributed as follows: Lisbon, N. H., 1 ; Peoria, Ill., 1 ; Shadeland, Ind., 1 ; Reading, Mich., 1 ; total, 4. Total from other States and Massachusetts for the year, 236.

Occupations of fathers of students, 1892-93: mechanics, 24 ; merchants and traders, 28 ; artisans, 26 ; professions, 22 ; manufacturers, 27 ; farmers, 15 ; other callings, 49 ; total, 191. Deceased, 37 ; retired, 8 ; total, 236.

KATE GANNETT WELLS.
GEORGE H. CONLEY.

FIFTY-SEVENTH ANNUAL REPORT

OF THE

SECRETARY OF THE BOARD.

SECRETARY'S REPORT.

To the Board of Education.

I respectfully present herewith the fifty-seventh annual report of the secretary.

SUMMARY OF STATISTICS FOR 1892-93, THE YEAR ENDING MAY 1, 1893.

Number of cities and towns, 352; cities, 28; towns, 324.	
All have made the annual returns required by law.	
Number of public schools,	7,510
Increase for the year,	174
Number of persons in the State between the ages of five and fifteen years, May 1, 1892,	390,039
Increase for the year,	7,083
Number of pupils of all ages in the public schools during the year ending May 1, 1893,	391,745
Increase for the year,	8,528
Average membership of pupils in all the public schools during the year ending May 1, 1893,	320,862
Increase for the year,	7,648
Average attendance in all the public schools during the year,	290,801
Increase for the year,	7,153
Per cent. of attendance, based upon the average membership,	90
Number of children under five years of age attending the public schools,	3,283
Increase for the year,	371
Number of persons over fifteen years of age attending the public schools,	35,395
Increase for the year,	305
Number of persons employed as teachers in the public schools during the year: men, 989; women, 10,244; total,	11,233
Number of teachers required by the public schools,	9,751
Number of teachers who have attended normal schools, . .	4,131
Increase for the year,	72

Number of teachers who have graduated from normal schools,	3,473
Increase for the year,	206
Average wages of male teachers per month in public schools,	\$140 73
Increase for the year,	\$6 51
Average wages of female teachers per month in public schools,	\$48 13
Increase,	\$1 61
Aggregate of months all the public schools have been kept during the school year,	68,961-4
Average number of months the public schools have been kept,	8-13
Increase for the year,	2 days.
Number of high schools,	247
Increase for the year,	5
Number of teachers in high schools,	961
Number of pupils in high schools,	28,582
Amount of salaries paid to principals of high schools, . . .	\$326,610 42
Evening schools: number, 244; kept in 58 cities and towns.	
Number of teachers, 1,088; whole number of pupils, 27,784;	
men, 21,615; women, 6,169; average attendance, 14,881;	
expense,	\$152,269 06
Amount raised by taxation and expended for support of public schools, including only wages and board of teachers, fuel for the schools and care of fires and school-rooms, . . .	\$6,282,141 20
Increase for the year,	\$703,190 91
Expense of supervision of the public schools,	\$284,764 36
Salaries of superintendents included in the above,	\$173,194 13
Expense of preparing and printing school reports,	\$13,410 35
Expense of sundries, books, stationery, maps, charts, etc., .	\$562,228 00
Expense of transportation of pupils,	\$50,590 41
Amount expended in 1892-93 for new school-houses, . . .	\$1,556,039 40
Amount expended for alterations and permanent improvements in school-houses,	\$231,306 24
Amount expended for ordinary repairs,	\$487,956 56
Amount of voluntary contributions to public schools, . . .	\$2,737 85
Amount of local school funds, the income of which can be appropriated to schools and academies,	\$2,549,140 10
Income of local funds appropriated to schools and academies,	\$120,517 81
Income of funds appropriated for public schools at the option of the town, as surplus revenue, tax on dogs, etc., . . .	\$110,905 85
Income of State school fund paid to cities and towns in aid of public schools for the school year 1892-93,	\$81,827 27
Of this amount there was appropriated for apparatus and books of reference,	\$3,767 31
Aggregate returned as expended upon public schools alone, exclusive of repairing and erecting school-houses, . . .	\$7,388,605 29
Of the above to each child in the State between five and fifteen years of age,	\$18 94
Including in the aggregate above the expenses of repairing and erecting school-houses, the sum is	\$9,663,907 49
To each child in the State between five and fifteen years of age,	\$24 77

Percentage of valuation of 1892 appropriated for public schools, including only wages and board of teachers, fuel for the schools and care of fires and school-rooms, . . .	.002, ⁴² / ₁₀₀
Percentage of valuation of 1892 appropriated for public schools, including all the items above, . . .	.004, ¹⁴ / ₁₀₀
Number of academies, . . .	94
Whole number of students for the year in academies, . . .	17,359
Amount of tuition paid, . . .	\$629,875 83
Number of private schools, . . .	350
Whole number of pupils attending for the year, . . .	44,991
Estimated amount of tuition, . . .	\$687,422 96

ANALYSIS OF STATISTICAL RETURNS FOR 1892-1893. — SCHOOL ATTENDANCE.

There are two items of school attendance quite different in the relations they bear to our school statistics : one is the number of children enrolled in the schools, the other the attendance of those that are enrolled. The first shows how extensive is the application of the provisions for education ; the second indicates the thoroughness of this application.

Enumeration and Enrolment of Children.

First in order, as a basis for estimating the extent to which provisions for education are accepted, is the enumeration of children within certain age limits, called the school age. By our statutes this enumeration is required to be made under direction of the school committee in the month of May of each year. The enumeration requires personal inquiry and inspection and a record of the name, age and residence of each child between the ages of five and fifteen years. Compliance with the statute is important, and is quite general.

Number of School Children in the State.

I. Table showing the Number of Children between Five and Fifteen Years of Age in the State, also the Annual Increase for Ten Successive Years, from May 1, 1883, to May 1, 1892.

	Number of Children.	Increase.		Number of Children.	Increase.
1883, . .	336,195	6,736	1888, . .	367,785	8,281
1884, . .	343,810	7,615	1889, . .	370,116	2,331
1885, . .	348,903	5,093	1890, . .	376,491	6,375
1886, . .	353,052	4,149	1891, . .	382,956	6,465
1887, . .	359,504	6,452	1892, . .	390,039	7,083
Average increase,					6,058

The number of children in the State between the above ages in May, 1892, was 390,039. This is an increase for the year of 7,083, and an excess of increase above the average for ten years of 1,025. The ratio of increase during the past year was greatest in the counties of Bristol, Hampden and Middlesex; it was least in Suffolk; while there was an actual decrease of numbers in Barnstable, Berkshire, Dukes, Franklin and Nantucket. The whole increase in ten years was 53,844, which was 16.01 per cent. for that time; during the same period our whole population increased about 25 per cent., showing that the ratio of increase in the school population during the past ten years falls 36 per cent. short of the increase in the whole population, a falling off which materially affects the enrolment in the schools, but for which they are in no way responsible, though the fact is sometimes cited to their disparagement. The ratio of children to the native population shows a decrease from decade to decade, while the foreign immigration, which swells our population, is largely composed of persons whose children do not accompany them, or of persons without families.

It is evident from the returns that less care is exercised in the enumeration of children between eight and fourteen years

of age than in that of children between five and fifteen years. Since our compulsory laws relating to attendance apply to children between eight and fourteen, the enumeration should be equally exact concerning children between these ages.

Number of Children Attending the Public Schools.

II. Table showing the Number of Children of all Ages in the Public Schools, with the Annual Increase and Decrease from May 1, 1884, to May 1, 1893.

	Pupils of All Ages in Public Schools.	Increase and Decrease.		Pupils of All Ages in Public Schools.	Increase and Decrease.
1884, .	342,012	Increase, 6,140	1889, .	363,166	Increase, 5,166
1885, .	339,714	Decrease, 2,298	1890, .	371,492	Increase, 8,325
1886, .	349,617	Increase, 9,903	1891, .	376,986	Increase, 5,494
1887, .	353,361	Increase, 3,744	1892, .	383,217	Increase, 6,231
1888, .	358,000	Increase, 4,639	1893, .	391,745	Increase, 8,528
Average increase,					5,817

The whole number of children of all ages attending the public schools during the year ending May 1, 1893, was 391,745. This is an increase of 8,528 over the number reported the previous year, and is the largest increase, with a single exception, ever reported. The number at present in the schools shows an increase over the number ten years previous of 14.54 per cent., which is within $1\frac{1}{2}$ per cent. of the ratio of the increase in the school population. If to the number attending public schools be added the number attending private schools, including parochial schools and academies, it will be found that the number in schools of all kinds is greater than the number in the State between five and fifteen years of age. The number in attendance upon schools of all grades below the superior schools, colleges, technical schools and professional schools is 454,095, which exceeds by 64,056, or 16.4 per cent., the number of persons in the State between five and fifteen years at the beginning of the year. The sources of this excess are indicated in former reports, particularly that for 1891-92. If

the above total attendance be compared with the number of persons within the ages of compulsory attendance, virtually eight and fourteen years, the excess is 210,154, equal to 86 per cent. Thus it appears that the number in attendance compared with the number of school age is as 7 to 6, and compared with that of the compulsory age as 11 to 6.

All the statistics show that most of the children of school age annually attend the schools for longer or shorter periods of time, and that large numbers attend who are outside the school age. The statistics of enumeration and of attendance of children between eight and fourteen, supported by observations in the schools, show that there is a general observance of the laws for compulsory attendance. Local influences obstruct somewhat the operation of the laws in special cases.

Truants and Truancy.

Notwithstanding we can point with pride to our large enrolment as an evidence of the high estimate the people in general put upon the schools, there is a class of children, small in any one town but large in the aggregate, whose attendance needs to be enforced by other than parental authority. Most of the counties have provided for this class of children, and for incorrigible children attending school, parental or truant schools. These are doing a most beneficent work by helping the school discipline and by training these pupils to feelings of self-respect and habits of self-control.

An obstacle in the way of their exerting a still larger influence upon this unfortunate class of children, and upon the discipline of the schools, is the expense they impose upon the towns. This is at the rate of \$2 per week for each child committed to these schools.

I recommend a modification of the law relating to the item of expense, so that it shall be borne in whole or in part by the State.

I would also renew the recommendation made in the report of last year, that a State agent be appointed to coöperate with the local authorities in enforcing the truant laws; and furthermore, that a careful revision be made of all the laws relating to the employment of children and to their compulsory school attendance.

III. Table showing the Attendance upon the Public Schools of Children whose Ages are between Five and Fifteen Years, also of those under Five and over Fifteen, with their Annual Increase and Decrease from May 1, 1884, to May 1, 1893.

	Pupils in School between Five and Fifteen Years of Age.	Increase and Decrease.	Pupils under Five Years.	Increase and Decrease.	Pupils over Fifteen Years.	Increase.
1884, .	315,727	Increase, 5,265	1,517	Decrease, 99	24,768	Increase, 974
1885, .	312,751	Decrease, 2,976	1,465	Decrease, 52	25,498	Increase, 730
1886, .	320,212	Increase, 7,461	1,433	Decrease, 32	27,972	Increase, 2,474
1887, .	323,018	Increase, 2,806	1,375	Decrease, 58	28,968	Increase, 996
1888, .	327,279	Increase, 4,261	1,178	Decrease, 197	29,543	Increase, 575
1889, .	331,228	Increase, 3,949	1,130	Decrease, 48	30,758	Increase, 1,215
1890, .	336,100	Increase, 4,872	2,578	Increase, 1,448	32,814	Increase, 2,066
1891, .	339,953	Increase, 3,853	3,129	Increase, 551	33,904	Increase, 1,090
1892, .	345,215	Increase, 5,262	2,912	Decrease, 217	35,090	Increase, 1,186
1893, .	353,067	Increase, 7,852	3,283	Increase, 371	35,395	Increase, 305
Average increase, 4,558			Average increase, 1,160			

The above table shows an increase in school attendance of children between five and fifteen years, also of children under five and over fifteen. There has been a perceptible increase in attendance of those under five years since the incorporation of kindergartens into the school system. This will, it is hoped, be accelerated as these institutions for early training come to be better known and appreciated. The increase neither in this class nor in the class over fifteen is as large as in some recent years.

The increase of those between five and fifteen for the year is 7,852, which is the largest reported for any one year. The whole attendance upon the public schools of children between these ages is 353,067, which bears a ratio to the whole number of children in the State between these ages of 90.5 per cent. Adding to the public school attendance the attendance upon private schools, we arrive at the conclusion previously stated, that the great proportion of children of school age attend school.

REGULARITY OF ATTENDANCE.

IV. Table showing the Average Membership and Yearly Increase of Membership of the Public Schools; also the Average Attendance, the Yearly Increase and the Ratio of Attendance for Ten Years, from May 1, 1884, to May 1, 1893, inclusive.

	Average Membership.	Increase of Average Membership.	Average Attendance.	Increase of Average Attendance.	Ratio of Attendance to Membership.
1884, . .	277,241	6,710	248,178	Increase, 6,125	.89510+
1885, . .	282,154	4,913	253,955	Increase, 5,787	.90005+
1886, . .	288,640	6,486	260,088	Increase 6,133	.90108+
1887, . .	291,539	2,899	262,159	Increase, 2,071	.89922+
1888, . .	293,941	2,402	264,723	Increase, 2,564	.90057+
1889, . .	299,537	5,596	270,851	Increase, 6,128	.90423+
1890, . .	303,524	3,987	273,910	Increase, 3,059	.9024+
1891, . .	307,953	4,429	278,602	Increase, 4,692	.9045+
1892, . .	313,214	5,261	283,648	Increase, 5,046	.9056+
1893, . .	320,862	7,648	290,801	Increase, 7,153	.9063+
		Av., 5,033		Av. Increase for 10 yrs., 4,873.	

As the enumeration of children in the State forms the basis for showing the proportionate number of persons who avail themselves of the school privileges, so the average membership is the basis for estimating the thoroughness of the application of these privileges.

The average membership in the schools for the year ending May, 1893, is shown by the above table to be 320,862, which is an increase for the year of 7,648, exceeding that for any previous year, and exceeding the average for ten years by 2,615. The ratio of the average membership to the whole number of different pupils attending the public schools is 90.8 per cent.

The average attendance for the year was 290,801; this is an increase of 7,153 over the attendance for the previous year,

and exceeds the average increase for ten years by 2,278. The ratio of attendance to membership is 90.63 per cent., which is an advance for the whole State over any previous year, and over that of last year of .07 of 1 per cent.

Thus an advance is making both in the proportion of the school population that attend the public schools and in the length of time of the attendance. Moreover, this advance was greater in the past year than at any previous period in our school history. The advance may be fairly ascribed to the more intelligent appreciation of the benefits of common school instruction, and to the increased efficiency of the schools themselves. The improvement in the form of supervision has been a great aid in securing these ends, but they are the direct result of increased interest of teachers in the theory and art of teaching, which grows out of a more careful study of its underlying principles.

The tables which follow, V. to VIII., inclusive, are interesting as showing how the higher and lower ratios of attendance to the average membership are distributed among the counties and towns of the State.

V. Table showing by Counties the Number of Towns whose School Attendance, based on the Average Membership, exceeds Ninety Per Cent. for the Year 1892-93.

COUNTIES.	Number of Towns in County.	Number of Towns in County Attendance over 90 Per Cent.	COUNTIES.	Number of Towns in County.	Number of Towns in County Attendance over 90 Per Cent.
Barnstable, .	15	9	Hampshire, .	23	12
Berkshire, .	32	8	Middlesex, .	54	44
Bristol, . .	20	6	Nantucket, .	1	1
Dukes, . .	7	2	Norfolk, . .	27	13
Essex, . .	35	15	Plymouth, .	27	16
Franklin, . .	26	18	Suffolk, . .	4	3
Hampden, . .	22	9	Worcester, .	59	42
Totals,				352	198

The number of towns whose schools have an average attendance of 90 per cent. or more, as compared with their average membership, is 198 this year, against 194 last year. The

increase in the average attendance is distributed throughout the State, and is shared by the sparsely populated towns with those of concentrated populations. The consolidation of schools and the multiplication of superintendents in the smaller towns are important factors in promoting punctuality and constancy of attendance.

One town reports an attendance of 98 per cent., four of 97, one of 96, three of 95, and twenty-one of 94 per cent. The comparison with the record of last year is favorable to the present. Though these exceptionally high per cents are the occasion for congratulation when attained by legitimate means and by an appeal to proper motives, they should never be so highly esteemed as to jeopardize the physical and moral ends which the schools are established to secure.

There is no reason to suppose that the essential ends are to any great extent sacrificed in the effort to reach high per cents, while, on the other hand, it may be justly inferred from the low per cents in certain localities that punctuality and regularity of attendance as means do not receive the attention of school officials and parents which their importance merits. As evidence upon this point attention is invited to the following tables :—

VI. Table showing the Number of Towns in the Several Counties the Ratio of whose School Attendance falls below Ninety, also the Percentage of this number to the number of Towns in the County.

COUNTIES.	Number of Towns in County.	Number of Towns below 90 Per Cent.	Ratio to whole Number of Towns in County.	COUNTIES.	Number of Towns in County.	Number of Towns below 90 Per Cent.	Ratio to whole Number of Towns in County.
Barnstable, .	15	6	.40	Hampshire, .	23	11	.47
Berkshire, .	32	24	.75	Middlesex, .	54	10	.18
Bristol, . .	20	14	.70	Nantucket, .	1	—	—
Dukes, . . .	7	5	.71	Norfolk, . .	27	14	.51
Essex, . . .	35	20	.57	Plymouth, . .	27	11	.40
Franklin, . .	26	8	.30	Suffolk, . . .	4	1	.25
Hampden, . .	22	13	.59	Worcester, . .	59	17	.28
Totals,					352	154	.43

VII. Table of the Several Counties arranged according to the Percentages of their Number of Towns having less than Ninety Per Cent. of Attendance.

COUNTIES.	Per Cent.	COUNTIES.	Per Cent.
Nantucket,	00	Hampshire,	47
Middlesex,	18	Norfolk,	51
Suffolk,	25	Essex,	57
Worcester,	28	Hampden,	59
Franklin,	30	Bristol,	70
Barnstable,	40	Dukes,	71
Plymouth,	40	Berkshire,	75

VIII. Table giving the Names of the Towns whose Average Attendance for the Year 1892-93 fell below Eighty Per Cent. of the Membership.

TOWNS.	Per Cent. of Attendance.	TOWNS.	Per Cent. of Attendance.
Lynnfield,	79	Rochester,	75
Cottage City,	79	Newbury,	74
Blandford,	78	Lakeville,	73
Hampden,	78	Lee,	72
Mount Washington, . .	77	Acushnet,	72
Gay Head,	77	Plympton,	72
Longmeadow,	75	Russell,	67

The number of towns in the above list is fourteen, against eleven in the corresponding table last year. Only two of these towns have had the stimulating influence of a school superintendent, and in each case this has been intermittent and fitful. It is worthy of note that the only two towns in the list, both

of the past and present year, are at the southwestern extreme, one of Berkshire, the other of Dukes County; the towns are Mount Washington and Gay Head.

Two recommendations, one regarding the time for dropping absentees from the roll, the other regarding a record of the time lost by tardiness and dismission, were made in the report of last year; the latter was in accordance with new spacing in the school register. The former of these recommendations will, if generally adopted, slightly increase the per cent. of average attendance. The recommendation is that any pupil absent for ten consecutive half days shall cease to be reckoned a member of the school in finding the average membership. The rule seems to be generally satisfactory. There has arisen the question, what account shall be made of the ten half days of absence? They are to be reckoned in getting the average both of membership and attendance, except in cases where the pupils never return to the school, when they may be expunged from the record of both membership and attendance — a rule which should be observed, whatever the period of time for dropping from the roll.

HIGH SCHOOLS.

IX. Table Showing the Number of High Schools in the State for Ten Years, from 1884 to 1893, with the Number of Pupils attending; also their Ratio to the Whole Number of Children in all the Schools.

YEAR	Schools.	Pupils.	Ratio of Pupils in H. S. to School Enrolment.	YEAR.	Schools.	Pupils.	Ratio of Pupils in H. S. to School Enrolment.
1884, .	228	20,012	.058	1889, .	236	24,139	.066
1885, .	224	20,489	.063	1890, .	241	25,317	.068
1886, .	224	21,370	.061	1891, .	244	26,294	.069
1887, .	229	22,406	.063	1892, .	242	27,482	.071
1888, .	230	22,785	.063	1893, .	247	28,582	.072

There are returns of 247 high schools in the State, the greatest number ever reported, it being an increase of nineteen in

ten years, or an average of about two per year, and of five over the number in 1892. Two towns compelled by law to maintain high schools have dropped from the list, by reason, as is known in one case, and presumed in the other, of their having provided tuition in neighboring cities for high school pupils. So that while there is a relative increase of five high schools during the year, the actual increase is seven.

A careful reading of the law which requires certain towns to maintain high schools will show that compliance with its provisions requires such towns to establish and maintain high schools; and that among its provisions there is none for the town's paying tuition for its pupils out of town.

The increase from year to year in these means for secondary instruction indicates an abiding interest rather than any sudden impulse in favor of high schools, while an increase of seven in a single year shows how deep-rooted the interest is. With the exception of the city of Worcester all the schools added to the list this year are in towns of rural populations, none of them having the number of inhabitants or the number of families requiring them to maintain high schools. It is not to be presumed that all these schools have extended courses such as the first-class city high schools afford. They provide some of the studies of the secondary schools, and so in a measure meet the desire for a more liberal culture than country grammar schools can furnish.

The number of persons enrolled in the high schools was 28,582, an increase of 1,100 over the enrolment of last year. Though in keeping with the increase in the number of schools, the increase in membership is in the numbers attending the schools as a whole and not due alone to the new schools established.

The ratio of the membership of the high schools is for the whole State 7.2 per cent. of the membership in all the public schools. The ratio has advanced in ten years from 5.8 per cent. to 7.2 per cent. In a few towns over 10 per cent. of all the pupils are in the high schools. A much larger per cent. enters them and takes a partial course. In some towns as high a rate as 40 per cent. enters these schools, and as the course of studies expands, students in larger numbers are attracted to them.

X. Table showing the Distribution of the High Schools among the Several Counties of the State, with the Ratio of Population having Access to High Schools.

COUNTIES.	Number of Towns in County.	Number of Towns required to keep High Schools.	Number of Towns having High Schools.	Number of High Schools.	Ratio of Population having Access to High Schools.
Barnstable,	15	9	10	10	86.1 per cent.
Berkshire,	32	7	14	16	85.5 "
Bristol,	20	10	11	11	93.0 "
Dukes,	7	-	1	1	26.4 "
Essex,	35	23	27	23	97.2 "
Franklin,	26	4	7	8	62.3 "
Hampden,	22	8	8	8	86.3 "
Hampshire,	23	6	11	12	82.0 "
Middlesex,	54	30	47	47	97.6 "
Nantucket,	1	1	1	1	100.0 "
Norfolk,	27	19	23	25	96.2 "
Plymouth,	27	13	19	19	91.4 "
Suffolk,	4	3	3	13	98.8 "
Worcester,	59	31	46	48	95.2 "
	352	164	228	247	94.4 Average.

It is a provision of the statute that the basis upon which the towns are required to keep high schools is the "latest public census taken by the authority either of the Commonwealth or of the United States." Hence the basis remains the same for a term of five years. The basis for the present year is the census of 1890; this will change with the State census of 1895. With this basis the number of towns required to keep high schools is 164; the number that do keep them is 228. Thus secondary instruction at public expense is provided by 64 towns that are not required by law to furnish it. The entire population of the 228 towns is 2,113,286; of the entire State the population is 2,238,943. The proportion of this population provided with high schools in their own towns is 94.4 per cent. Towns like Revere, which pay the tuition of their high school pupils to other towns, being included with the above, the percentage would reach 95 per cent. If there be added to the above public provision that made for secondary instruction by individual

The number of towns that keep evening schools shows a slight increase, there being 58, against 55 towns the previous year. The per cent. of attendance has advanced from 52 to 53 per cent., and the cost of maintaining them from \$131,557.63 to \$152,269.06. On the other hand, there is a decrease in the number of schools from 255 to 244; in the whole number attending them, from 29,221 to 27,784, which is 1,437; there is also a decrease in the average number attending, from 15,287 to 14,881. The increase of 1 per cent. in the average attendance based upon the enrolment may indicate a slightly higher estimate of their value by the students enrolled. The large increase, \$20,711.43, in the expenditure for their support leaves no room to doubt that the people are ready to appropriate liberally for the instruction not only of children and youth but also of adults. The returns show that the average attendance upon these schools is but a little over 50 per cent. Taught, as they are, in hours following those of wearying toil, it is not wonderful that their percentage of attendance is so low. It is, notwithstanding, a question whether their instruction and conduct do not admit of such modifications as would give for the large outlay they occasion a larger return. To induce greater regularity of attendance the plan is adopted in some instances of requiring each student on entering to make a deposit of a nominal sum of money, say, one dollar, the return of which to the pupil is conditioned upon the regularity of his attendance and the excellence of his deportment.

TIME THE SCHOOLS ARE KEPT.

XII. Table showing the Length of Time in Months the Schools were kept during Each Year from 1884 to 1893, a Period of Ten Years.

	Average Number of Months and Days the Schools were kept.		Average Number of Months and Days the Schools were kept.
1884,	8-19	1889,	8-11
1885,	8-3	1890,	8-17
1886,	9-4	1891,	8-9
1887,	8-12	1892,	8-11
1888,	8-9	1893,	8-13

An increase of two days in the average length of time the schools of the State were kept appears in the returns of 1892-93 as compared with those of the previous year; the average time throughout the State is eight months and thirteen days; this is nearly thirty-five weeks, and reaches the exact average for ten years. For the amount of work contemplated in our courses of studies, and which can profitably be attempted, this average should be exceeded by every school in the State. When it is considered that the city graded schools keep on an average thirty-six weeks, and that our high schools are, in compliance with the statutes, kept forty weeks, it will be seen that some of the towns but little exceed the limit of the law, which requires the schools to be kept for at least six months. The introduction of kindergartens into the school system will tend to decrease the average length of the schools, but at present it has no appreciable effect. There are local influences, as the cranberry-picking in the southeastern part of the State, and the early removal from the cities to summer residences, and the late return from them, which occasion the shortening of the school year; so that on the whole no considerable increase in the average length of the schools is likely to take place. The keeping of part-time schools in the long vacations may be found desirable to eke out the schooling cut short by these influences.

XIII. Table showing the Towns that have not kept their Schools Six Months during the Year, the Number of Schools not so kept, and the Average Time of keeping the Schools as a Whole in These Several Towns.

COUNTIES.	TOWNS.	Number of Schools.	Average Length of Schools of Town.
Barnstable, . .	Chatham,	1	8 mo.
	Sandwich, . . . 2	1— 2	8 " 2 days.
Berkshire, . .	Becket,	1	7 " 18 "
	Hancock,	1	7 " 3 "
	Sandisfield, . . .	1	7 " — "
	Williamstown, . .	1	8 " 6 "
	Windsor, . . . 5	1— 5	7 " 10 "
Bristol,	Berkley, . . . 1	1— 1	7 " 17 "

TABLE XIII — *Concluded.*

COUNTIES.	TOWNS.	Number of Schools.	Average Length of Schools of Town.
Dukes, . . .	Cottage City, . . . 1	1— 1	8 mo. 7 days.
Essex, . . .	Amesbury, 1	1	9 " 5 "
	Ipswich, 1	1	9 " 13 "
	Merrimac, 1	1	8 " 10 "
	Salisbury, 4	1— 4	8 " —
Franklin, . . .	Leyden, 1	1	6 " 12 "
	Orange, 2	1— 2	8 " 7 "
Hampden, . . .	Agawam, 1	1	8 " 15 "
	Blandford, 1	1	6 " 5 "
	Granville, 1	1	7 " —
	Tolland, 4	1— 4	6 " —
Hampshire, . . .	Belchertown, 1	1	8 " —
	Easthampton, 3	3	8 " 2 "
	Enfield, 1	1	7 " 6 "
	Huntington, 2	2	6 " 19 "
	Middlefield, 5	1— 8	7 " 2 "
Middlesex, . . .	Ashby, 1	1	5 " 14 "
	Carlisle, 1	1	8 " 7 "
	Hopkinton, 1	1	8 " 5 "
	Littleton, 1	1	8 " 3 "
	Sudbury, 5	1— 5	8 " 5 "
Nantucket, . . .	— 0	0	— —
Norfolk, . . .	Franklin, 1	1— 1	8 " 19 "
Plymouth, . . .	Lakeville, 1	1	7 " 2 "
	Mattapoissett, . . . 2	1— 2	8 " 4 "
Suffolk, . . .	— 0	0	— —
Worcester, . . .	Lancaster, 1	1	9 " 2 "
	Milford, 1	1	9 " 16 "
	Millbury, 4	4	8 " 6 "
	Oxford, 1	1	8 " 15 "
	Phillipston, 1	1	7 " 7 "
	Royalston, 1	1	7 " 3 "
	Rutland, 1	1	6 " 7 "
	Shrewsbury, 1	1	7 " 12 "
	Warren, 2	2	8 " 9 "
	Webster, 10	2—15	8 " 12 "
	Totals, 42	50	

For a series of years there was a decrease year by year in the number of towns that failed to keep all their schools the

required time of twenty-four weeks — six months — specified in the law. This was at the time considered to be favorable to the schools, and it was so; it showed a liberal spirit in the towns to keep out of this unenviable class; but latterly there is an increasing number of towns each year that seemingly do not keep all their schools the required time; this year there are forty-two, against forty such towns last year.

But while the number of towns has increased, the number of schools that kept less than six months has decreased; this year there were 50 schools, against 56 last year. All except five of the towns have but a single school that was kept for a less time than six months, and every town, with a single exception, kept its schools as a whole over six months, a number of them over nine months.

The consolidation of schools, which often takes place while the school year is in progress, will probably account for a large number, if not for the entire number, of schools of the class under consideration. To the extent that this is the case, the closing of these schools, usually poor, because small and otherwise unpromising, is a sign of progress, and should be placed to the credit of the town.

AMOUNT EXPENDED FOR THE MAINTENANCE OF PUBLIC SCHOOLS.

XIV. Table showing the Appropriations and Expenditures for the Ten Years from 1883 to 1893.

	Amount raised by Taxes and expended for Wages and Board of Teachers, Janitors and Fuel.	Amount received from All Sources, exclusive of Appropriations for Buildings and Repairs.	For Each Child in the State between 5 and 15 Years of Age.	Whole Amount expended for All School Purposes.	For Each Child in the State between 5 and 15 Years of Age.	Ratio of Valuation appropriated to Public Schools.
1883-84,	\$4,524,371 03	\$5,180,661 93	\$15 40	\$6,502,359 24	\$19 34	.00375
1884-85,	4,675,882 44	5,631,584 62	16 38	7,020,430 00	20 42	.00399
1885-86,	4,817,429 01	5,676,969 08	16 28	7,151,075 38	20 44	.0041
1886-87,	5,059,939 43	5,857,321 00	16 59	7,000,083 52	19 82	.00378
1887-88,	5,114,402 41	5,934,198 59	16 50	7,087,206 42	19 71	.00366
1888-89,	5,366,605 29	6,203,390 55	16 87	7,510,718 85	20 42	.00376
1889-90,	5,524,882 65	6,415,444 51	17 33	8,286,062 39	22 38	.00399
1890-91,	5,707,514 37	6,652,972 67	17 67	8,554,545 57	22 72	.00397
1891-92,	5,578,950 29	6,668,690 93	17 41	9,315,556 55	24 32	.00414
1892-93,	6,282,141 20	7,388,605 29	18 94	9,668,907 49	24 77	.00414

Distribution of Expenditures.

The expenditures for public school purposes may be classed under two general heads, (1) moneys raised by taxation, and (2) voluntary contributions, or moneys for which no direct tax is levied. Of the moneys raised by taxation and appropriated to the public schools there are, first, those which are essential to carrying on a school, including wages of teachers, with their board, if paid in addition to their wages; care of school-houses, and fuel; these are classed under the term "support of schools." The sum returned for this purpose is \$6,282,141.20, which is an excess over that of the previous year of \$703,190.91. The unusual increase of this year is apparent rather than real. It is due in part to a change in the fiscal year of the city of Boston, which took place in 1892, so that the returns made for that year covered but nine months. The returns of Boston made for the full twelve months of 1892-93 show, therefore, an increase of \$443,858.75 over the same item for the year 1891-92. The average increase per year for the entire State during the past ten years was \$194,276.31; for the past two or three years the average has been about \$200,000.

The sum raised and expended upon school-houses, including the three items, ordinary repairs, alterations and permanent improvements, and new buildings, was \$2,275,302.20; a sum less by \$371,563.42 than was expended in 1891-92. And yet, when compared with any previous period of five or six years, that ending with the present year and including it far surpasses all other like periods in the sums spent in alterations and erection of school-houses throughout the State.

A third class of expenses met by taxation includes the cost of text-books and other means used in study and teaching, \$562,228.00; cost of printing reports, etc., \$13,410.35; and money paid for the supervision of schools, \$284,764.36, amounting to \$860,402.71. All the above items show a total increase for the year of \$66,082.43. The large amount expended for school supplies and means of teaching is an index to the change taking place in methods of teaching and study, by which ampler means, in the form of reference books, books for supplementary reading, and apparatus for purposes of illus-

tration are required. An increase of \$35,064.40 for superintendent service is due to the increase in the number of superintendents and to the greater demand for experience and skill in the office.

In addition to the above moneys, the public schools received the sum of \$335,988.78 from voluntary contributions, the income of local funds, of the State school fund, and of the surplus revenue. Some of these items the towns can, if they choose, apply to other than school purposes.

Excluding what was appropriated for school buildings, the amount received from all sources and applied to the public schools was \$7,388,605.29, an increase of \$719,914.36 for the year; this increase includes that previously accounted for in the Boston returns. The entire sum allows \$18.94 to each child in the State between five and fifteen years of age.

Including with the above the sum expended on school-houses, the whole sum expended for all purposes upon the public schools is \$9,663,907.49, which equals \$24.77 per child between five and fifteen years of age. This is at the rate of 4.14 mills on the dollar of the taxable property of the State. The rate remains the same as for the previous year, and with our increased valuation shows a liberal advance in the appropriations made for school purposes.

If the money applied to public schools be added to the estimated sum paid for tuition in private schools, which is \$1,317,298.79, the amount expended for common schools and private schools of corresponding grades is \$10,981,206.28. No doubt this is approximately correct, though the returns of the private schools do not furnish data for exact estimates.

TEACHERS AND TEACHERS' WAGES.

The principal outlay made under the expenditures for the support of schools is the money paid to teachers. The table which follows gives, with the number of teachers employed, male and female, the present rate of wages per month, and the annual increase for a period of ten years:—

TEACHERS AND TEACHERS' WAGES.

XV. Table showing the Number of Teachers employed, Male and Female, and Total, for Ten Years; their Wages per Month, with the increase and decrease of the Same; also the Number of Teachers who have attended Normal Schools, and the Number of Normal Graduates employed.

	TEACHERS.			WAGES PER MONTH.				NORMAL TEACHERS.			
	Male.	Female.	Total.	Male.	Increase and Decrease.	Female.	Increase and Decrease.	Attended Normal School.		Normal Graduates.	
1884,	1,058	8,340	9,398	\$108 02	Increase, \$4 69	\$44 18	Increase, \$2 28	2,744	Increase, 163	2,240	Increase, 85
1885,	1,061	8,460	9,521	120 72	Increase, 12 70	43 85	Decrease, 33	2,866	Increase, 122	2,392	Increase, 152
1886,	1,060	8,610	9,670	111 23	Decrease, 9 49	43 97	Increase, 12	3,003	Increase, 137	2,420	Increase, 28
1887,	1,033	8,696	9,729	116 85	Increase, 5 62	44 93	Increase, 96	3,134	Increase, 131	2,533	Increase, 113
1888,	1,010	8,887	9,897	119 34	Increase, 2 49	44 88	Decrease, 05	3,246	Increase, 112	2,677	Increase, 144
1889,	901	9,222	10,123	108 88	Decrease, 10 46	45 93	Increase, 1 05	3,373	Increase, 127	2,689	Increase, 12
1890,	1,017	9,307	10,324	126 58	Increase, 17 70	44 79	Decrease, 1 14	3,504	Increase, 161	2,819	Increase, 130
1891,	1,016	9,630	10,646	118 07	Decrease, 8 51	48 17	Increase, 3 38	3,736	Increase, 232	3,070	Increase, 251
1892,	992	9,973	10,965	134 22	Increase, 16 15	46 52	Decrease, 1 65	4,059	Increase, 323	3,267	Increase, 197
1893,	989	10,244	11,233	140 73	Increase, 6 51	48 13	Increase, 1 61	4,131	Increase, 72	3,473	Increase, 206

The whole number of different teachers employed in the public schools during the year 1892-93 was 11,233, of which 989 were males, 10,244 females. The average wages of the male teachers were \$140.73 per month, which is an increase for the year of \$6.51. The average wages of the female teachers were \$48.13 per month, which is an increase for the year of \$1.61 per month.

The average wages paid women for teaching are not in advance of those paid in other less responsible occupations open to women; and when compared with the wages paid male teachers they are so low as to make it humiliating to report the two in connection. Moreover, the advance in the wages of male teachers in ten years has been at the rate of 36.2 per cent., while that for female teachers has been at the rate of 14.8 per cent.

So long as the present low wages are paid to the mass of female teachers the tendency will be for superior young women to seek employment in other occupations, especially if places can be secured in them without long preliminary training and give promise of greater permanence and less strain upon the nervous system. If it be said, there are always more applicants than places for teaching, the reply is, yes, and the more nearly the work of the teacher approaches a menial service or receives a menial's pay the greater will be the number of applicants.

It is somewhat encouraging to see the advance in the wages of male teachers. Not so encouraging is it to witness the decline, which has been pretty constant for the last ten years, in the number of male teachers employed. There is some slight relief from the solicitude occasioned by the steady falling off of male teachers in the fact that it is more than compensated for in the number of male teachers transferred to the ranks of school superintendents. We believe it to be for the advantage of the youth of both sexes to be brought under the influence of male as well as of female teachers. The best private schools exhibit greater wisdom than the public schools in the greater number of male teachers they employ.

The professional training given in the normal schools is becoming more and more potent in the common schools. The increase in the number of normal graduates employed during the year is 206, which is the greatest increase, with one exception, in any year for the last ten; at the same time, the

increase in the number of teachers who have attended the normal schools, but who have not of necessity graduated from them, was but 72, which was the smallest increase in ten years. The whole number of the latter class of persons employed in teaching this year was 4,131, while of graduates it was 3,473. This shows that of our whole corps of teachers less than 37 per cent. have had any normal training, and less than 31 per cent. are normal graduates.

The simple statement of the above fact is convincing testimony in favor of a large increase in the number of persons in training for the work of teaching. The cities and larger towns are attempting to meet the demand for trained teachers by maintaining training schools. The training they attempt is directed to the practice side of the teachers' preparation; it is valuable, but it is not in any full sense professional. The demand can be fully met only by increasing the numbers in attendance upon normal schools, and making graduation from these a requisite for teaching. Provision for this was recommended in my last annual report. That recommendation I would renew with increased emphasis. Looking forward to the time when this recommendation in the interest of skilled teaching for all the schools will be favorably entertained by the Legislature, I would further suggest the need, which will follow such action, of greatly increased facilities for giving the required normal training. It will involve an increase of normal schools and their location in the centres of population throughout the State.

EXPENSES OF TEXT-BOOKS AND SUPPLIES.

XVI. Table showing the Sum appropriated and the Rate per Scholar, for the past Ten Years, for Books, Stationery, Maps, Charts, etc.

YEAR.	Total Expense of Books, etc.	Expense of Books, etc., per Pupil.	YEAR.	Total Expense of Books, etc.	Expense of Books, etc., per Pupil.
1883, . .	\$253,537 61	\$0 91	1888, . .	\$427,155 56	\$1 42
1884, . .	588,760 38	2 08	1889, . .	469,924 02	1 54
1885, . .	488,210 44	1 69	1890-91, .	494,545 27	1 60
1886, . .	424,697 29	1 45	1891-92, .	532,530 73	1 70
1887, . .	428,736 05	1 49	1892-93, .	562,228 00	1 75
Average for 9 years,					\$1 63

The average cost per pupil for text-books and supplies since the enactment of the free text-book law, now nine years, has been at the rate of \$1.63 a year; since the first two years there has been a slight annual increase; the cost for the present year is \$1.75. The total sum paid is \$562,228, which is an increase, as previously stated, of \$35,064.40 for the year.

There is general satisfaction with the operation of the free text-book law, though the desire has been expressed quite emphatically, and the claim has been persistently urged in some localities that the children should be allowed to take with them, on permanently leaving school, the books they last used. This would somewhat increase the expense for supplies, but it would have the advantage of furnishing some books which might serve for occasional reference in homes which otherwise would have none, and it would secure to the schools a more frequent fresh supply.

EXPENSE OF CONVEYING CHILDREN.

XVII. Table showing the Amount expended for transporting Children to School for the past Five Years.

YEAR.	Sum expended.	YEAR.	Sum expended.
1888-89, . . .	\$22,118 38	1891-92, . . .	\$38,726 07
1889-90, . . .	24,145 12	1892-93, . . .	50,590 41
1890-91, . . .	30,648 68		

The law authorizing towns to appropriate money for the conveyance of children to school has been upon the statute book since 1869, and yet the towns did not for several years avail themselves of its privileges. One direct advantage of the law is the facility it gives the towns for consolidating their schools. In recent years this has been going on in all parts of the State, and within the past three years at a greatly increased rate. The sum expended during the past year was \$50,590.41, an increase of \$11,864.34, or of 30.6 per cent. as compared with the previous year. The plan of consolidation where conveyance is provided proves most advantageous, and seems in practice to be attended with no unfavorable conditions.

EXPENSE OF SUPERVISION.

XVIII. Table showing the Expense of Supervision, both by School Committees and by Superintendents, for Eight Years, from 1885.

	EXPENSE OF SUPERVISION.		
	By School Committees.	By Superintendents.	Total.
1885,	\$114,311 77	\$87,918 59	\$202,230 36
1886,	106,412 26	94,060 29	200,472 55
1887,	112,926 60	96,881 28	219,757 88
1888,	112,772 58	101,324 90	214,107 43
1889-90,	112,649 15	114,993 28	227,642 43
1890-91,	110,038 84	135,124 79	245,163 63
1891-92,	96,491 48	153,208 48	249,699 96
1892-93,	111,570 23	173,194 13	284,764 36

The sum expended during the year for supervision was \$284,764.36; paid to school committees, \$111,570.23; to superintendents, \$173,194.13; an increase for the year in the former sum of \$15,078.75, and of the latter of \$19,985.65. The value of intelligent personal supervision is coming to be more and more recognized. It is felt by those most competent to judge that no expenditure for the schools yields a better return than that bestowed upon such supervision.

The recommendation of last year to the Legislature for increased appropriations for the supervision of the schools in the smaller towns met with a ready response, and the measure is making good returns in the assured greater permanence and efficiency of the office of district superintendent. It is commending the office both to the employed and to the employer.

SUPERVISION BY SUPERINTENDENTS.

Since the year 1854 provision has been made by which towns can legally avail themselves of the service of school superin-

tendents to supplement the supervision earlier provided for by town school committees. Until the law of 1888 the superintendent form of supervision was limited to the populous and wealthy towns and cities. The enactment of that year, with the amendments of last year, makes it possible for every town in the State to employ a superintendent of schools. It provides that towns not exceeding two and one-half millions of valuation may unite in groups for this purpose; it limits each group to a maximum of fifty and a minimum of twenty-five schools. It requires that each group of towns shall pay for the support of a superintendent \$750 a year. To aid the towns the law provides for the payment to every such group the sum of \$1,250 from the State treasury, \$750 of which shall go to supplement the sum paid the superintendent by the towns, so that his salary shall be at least \$1,500, and the remaining \$500 shall be paid for teachers' salaries. Both sums are intended, either directly or indirectly, to improve the work of teaching.

No recent enactment affecting the schools has met with more general and hearty approval than the act of 1888.

The following table shows to what extent the towns and cities are now employing superintendents: —

XIX. Table showing by Counties the Number and Per Cent. of Towns and Cities not under Superintendents, also the Number of Towns and the Number and Per Cent. of Schools and Children under Superintendents.

COUNTIES, 1892-93.	NUMBER OF TOWNS NOT HAVING SUPERINTENDENTS.		NUMBER OF TOWNS WHICH EMPLOY SUPERINTENDENTS.				SCHOOLS.		CHILDREN.	
	Number.	Per Cent.	UNDER LAWS.			Total Towns.	Number.	Per Cent.	Number.	Per Cent.
			1854.	1870.	1888-92.					
Barnstable,	3	20.0	3	0	7	12	133	84.1	4,297	87.1
Berkshire,	18	56.2	5	0	11	14	204	56.9	11,173	71.1
Bristol,	9	45.0	9	0	4	11	555	84.7	29,596	91.8
Dukes,	7	100.0	0	0	0	0	0	0.0	0	00.0
Essex,	23	62.8	11	2	0	13	745	72.8	38,935	75.2
Franklin,	15	57.6	2	0	12	11	122	47.2	2,918	40.4
Hampden,	5	22.7	6	0	6	17	453	93.4	22,237	97.6
Hampshire,	14	60.8	4	0	5	9	147	51.0	5,019	52.4
Middlesex,	8	14.8	19	6	16	46	1,376	93.9	77,858	95.9
Nantucket,	1	100.0	0	0	0	0	0	0.0	0	00.0
Norfolk,	7	25.9	10	1	7	20	430	82.2	18,598	81.0
Plymouth,	11	40.7	7	1	6	16	304	74.5	13,307	80.2
Suffolk,	0	00.0	4	0	0	4	697	100.0	77,445	100.0
Worcester,	11	18.6	15	0	25	43	1,064	91.9	49,430	94.2
Totals,	131	37.2	95	10	109	231	6,235	83.0	347,804	88.7

By this table it appears that out of 352 towns in the State, 221 are employing superintendents. The number employing them under the original law and under that of 1870, which differs from it in no essential particular, is 105; the number employing them under the recent enactment is 109. The former class of towns includes nearly every town in the State of considerable population and of high valuation; the latter class embraces the small, sparsely populated and poorer towns of the State.

Included in these two classes of towns, the number of schools under this form of supervision is 6,235, out of a total number of public schools in the State of 7,510, or 83 per cent. of the whole number. The number of school children under superintendents is 347,804, out of a total in the public schools of 391,745, which is 88.7 per cent. against 85.8 per cent. for the previous year.

The counties that have a rank above the average are: Suffolk, 100 per cent.; Hampden, 97.6 per cent.; Worcester, 94.2 per cent.; Bristol, 91.8 per cent. There are now but few school children in these five counties not under superintendents. Suffolk, Middlesex, Worcester, Barnstable, Hampden and Norfolk are the six counties having the smallest ratio of towns not under this form of supervision; these range from zero to 25.9 per cent., in the order in which they are here named.

There are still 131 towns, or 37 per cent. of the whole number of towns in the State, not employing superintendents. The per cent. of last year was 40.3 per cent. The greater part of these towns are small and relatively poor. Many of them have voted to accept the provisions of the act of 1888, but find no towns with which they can conveniently unite. The isolated condition of many towns makes it difficult to combine them with others to advantage. The difficulty of effecting unions for this class of towns increases as the towns first to avail themselves of the provisions of the law become more accustomed to working together.

There are still towns that do not exhibit an active interest in securing for their schools the benefits of skilled supervision. There is no known opposition to the principle upon which the employment of a special agent to superintend the schools is based; indeed, it seems to meet with universal acceptance.

A large number of towns desirous of securing for their schools this form of supervision are unable to do so for reasons already stated. I advise, therefore, that authority be given the proper persons to make such combinations of towns as shall provide for bringing every school under the superintendent form of supervision.

A provision could at least be made for aiding towns of less than two and a half millions of valuation to unite with towns exceeding this valuation and employing superintendents. There are employed under the earlier laws, superintendents who could give part of their time to superintending the schools of one or more additional towns; an amendment to the law of 1888, giving proportionate aid to such towns as would come properly under this law to enable them to obtain such superintendent service, would in some instances afford the needed relief.

It is certain that so important a means of supervising the schools as a good superintendent is admitted to be, should be brought to bear upon every school and every child, even the humblest in the State.

TEACHERS' INSTITUTES.

Teachers' institutes were held, as hitherto, in the various parts of the State, principally in the autumn months. There were twenty-nine in all. They were located, attended and conducted as shown by the following table:—

XX. Table showing the Location of Institutes for 1892-93, the Date of holding, the Number of Towns represented and Persons attending, with the Number of Exercises conducted.

WHERE HELD.	Date.	Number of Towns rep- resented.	Number of Members.	Number of Exercises.	By Whom Conducted.
Amesbury, . . .	Oct. 26,	6	96	9	Jas. W. MacDonald.
Athol, . . .	Sept. 12,	8	78	12	Andrew W. Edson.
Belchertown, . .	Sept. 18,	3	34	6	G. T. Fletcher.
Cummingtown, . .	May 26,	8	31	6	G. T. Fletcher.
Danvers, . . .	Oct. 24,	7	68	11	Jas. W. MacDonald.
Fairhaven, . . .	Sept. 27,	5	35	8	John T. Prince.

TABLE XX. — *Concluded.*

WHERE HELD.	Date.	Number of Towns rep- resented.	Number of Members.	Number of Exercises.	By Whom Conducted.
Hamilton, . . .	Oct. 17,	5	65	7	Jas. W. MacDonald.
Harwich, . . .	Nov. 8,	8	75	11	George A. Walton.
Holden, . . .	Oct. 5,	5	59	10	Andrew W. Edson.
Holliston, . . .	Oct. 10,	7	129	18	George A. Walton.
Holyoke, . . .	Sept. 14,	9	214	29	Andrew W. Edson.
Lawrence, . . .	15,				
Leominster, . . .	May 26,	11	82	10	Jas. W. MacDonald.
Lowell, . . .	Oct. 4,	9	98	12	Andrew W. Edson.
Marshfield, . . .	Oct. 7,	8	274	11	George A. Walton.
Melrose, . . .	Dec. 15,	3	28	7	Jas. W. MacDonald.
Millbury, . . .	May 5,	4	163	12	George A. Walton.
North Adams, . . .	May 15,	8	122	11	Andrew W. Edson.
Northampton, . . .	Nov. 22,	4	89	13	G. T. Fletcher.
Orange, . . .	June 29	53	209	49	G. T. Fletcher.
Pittsfield, . . .	to July 5,				
Russell, . . .	Jan. 6,	6	65	4	G. T. Fletcher.
Stoughton, . . .	Oct. 13,	10	150	18	G. T. Fletcher.
Sudbury, . . .	Sept. 19,	4	19	7	Andrew W. Edson.
Swansea, . . .	Sept. 29,	6	94	10	John T. Prince.
Wellesley, . . .	Nov. 15,	6	82	11	George A. Walton.
West Springfield, . . .	May 24,	5	57	6	John T. Prince.
Winchendon, . . .	Sept. 25,	6	103	12	John T. Prince.
Wrentham, . . .	Sept. 21,	6	73	14	Andrew W. Edson.
Totals, . . . 29	Oct. 3,	7	127	18	Andrew W. Edson.
	Sept. 22,	7	118	9	John T. Prince.
		234	2,837	361	

The whole number of institutes held was 29 ; the number of towns represented was 234 ; the number of teachers and school officers present was 2,837. The number of different exercises conducted was 361, a number larger than in the institutes of recent years, owing to the grading of the institutes and giving instruction at the same time to more than one section. This plan is not new, though it was more fully carried out this year than hitherto. It secures a greater interest to have the methods of instruction illustrated by examples drawn from the kind of work the members are doing.

XXI. Table giving the Names of the Towns represented in the Institutes, with the Number of Persons attending from Each Town, for the Year 1892-93.

Towns.	Number of Persons.	Towns.	Number of Persons.
Acushnet,	4	Easthampton,	50
Agawam,	17	Easton,	18
Amesbury,	28	Enfield,	7
Amherst,	11	Erving,	10
Andover,	2	Essex,	10
Ashburnham,	21	Everett,	1
Ashfield,	4	Fairhaven,	16
Ashland,	13	Fitzwilliam, N. H.,	1
Athol,	43	Foxborough,	9
Auburn,	18	Framingham,	44
Avon,	7	Franklin,	21
Becket,	1	Gardner,	38
Belchertown,	36	Georgetown,	8
Bellingham,	8	Gill,	4
Bernardston,	3	Goshen,	5
Beverly,	2	Grafton,	21
Billerica,	7	Granby,	8
Blandford,	2	Granville,	6
Bolton,	1	Greenfield,	10
Boxborough,	7	Groveland,	1
Boxford,	5	Hadley,	5
Boylston,	3	Hancock,	2
Bradford,	3	Hamilton,	8
Brewster,	6	Harvard,	9
Buckland,	2	Harwich,	14
Canton,	21	Hatfield,	5
Chatham,	17	Haverhill,	13
Chelmsford,	16	Hinsdale,	7
Cheshire,	8	Holden,	18
Chester,	4	Holliston,	20
Chesterfield,	8	Holyoke,	107
Chicopee,	47	Hopkinton,	24
Clarksburg,	4	Hubbardston,	8
Clinton,	16	Huntington,	9
Colrain,	5	Ipswich,	16
Concord,	14	Lancaster,	15
Conway,	1	Lanesborough,	4
Cummingtown,	5	Lawrence,	15
Dana,	4	Leicester,	16
Dalton,	20	Leominster,	31
Danvers,	29	Leyden,	3
Deerfield,	10	Longmeadow,	11
Dennis,	16	Lowell,	239
Dighton,	14	Ludlow,	14
Douglas,	11	Lunenburg,	8
Dover,	5	Lynnfield,	3
Dracut,	6	Malden,	90
Duxbury,	8	Marion,	9

TABLE XXI. — *Concluded.*

TOWNS.	Number of Persons.	TOWNS	Number of Persons.
Marshfield,	13	Sherborn,	4
Mattapoissett,	4	Shutesbury,	1
Medway,	25	Somerset,	13
Melrose,	43	Southampton,	10
Merrimac,	11	South Hadley,	21
Methuen,	3	Southwick,	1
Middlefield,	2	Springfield,	1
Middleton,	4	Sterling,	10
Milford,	38	Stockbridge,	10
Millbury,	21	Stoughton,	23
Millis,	15	Sudbury,	10
Monson,	3	Sunderland,	1
Montague,	6	Sutton,	10
Montgomery,	1	Swansea,	13
Natick,	44	Templeton,	21
Needham,	20	Topsfield,	4
New Ashford,	1	Tewksbury,	7
Newbury,	7	Tyngsborough,	5
Newburyport,	34	Upton,	7
New Marlborough,	4	Wakefield,	29
New Salem,	2	Walpole,	15
Norfolk,	7	Waltham,	6
North Adams,	70	Ware,	4
North Andover,	2	Warwick,	6
Northampton,	24	Washington,	4
North Attleborough,	38	Wayland,	3
Northfield,	2	Wellesley,	21
Orange,	56	Wellfleet,	4
Orleans,	5	Wendell,	6
Peabody,	33	Wenham,	6
Pelham,	1	West Boylston,	23
Petersham,	1	West Bridgewater,	1
Pittsfield,	92	Westfield,	12
Phillipston,	6	Westford,	5
Plainfield,	3	Westhampton,	1
Princeton,	3	Westminster,	12
Provincetown,	11	West Newbury,	10
Randolph,	17	West Springfield,	32
Rehoboth,	7	West Stockbridge,	5
Richmond,	5	Whately,	4
Rochester,	2	Wilbraham,	1
Rowley,	7	Williamsburg,	10
Royalston,	15	Williamstown,	18
Russell,	7	Wilmington,	7
Rutland,	8	Winchendon,	36
Salisbury,	6	Windsor,	3
Sandisfield,	2	Worthington,	10
Scituate,	7	Wrentham,	21
Seekonk,	10	Yarmouth,	2
Sharon,	8	Reported without location,	30
Sheffield,	3		
Shelburne,	5		
		Total,	2,837

The institutes, with two exceptions, were convened for one day. The one held at Holyoke continued for two days, and that at Laurel Park, Northampton, for six days. Coming in the month of July and continuing so long, this institute was of the nature of a summer school.

Though the institute has a history reaching back to the establishment of the Board of Education and to the appointment of Horace Mann, its first secretary, it seems not to have outlived its usefulness or to have lost any of its early vigor. This remark is prompted by the large attendance upon the exercises of the present year, and by the interest which they enlisted. It was the aim of the secretary to present topics which vitally affect the school instruction of to-day, and to bring to their discussion persons intelligent and skilful each in his special department. The agents in their several sections faithfully labored to make the institutes effective in exciting the professional zeal of the teachers and in increasing their knowledge of the principles and work of teaching.

The following list shows the departments of instruction and the several instructors employed :—

Instruction and Instructors.

Addresses were made to the public by Mr. A. C. Boyden, Mr. William E. Hatch, Mr. E. L. Kirtland, Rev. A. D. Mayo, Mr. Charles A. Merrill, Mrs. Alice Freeman Palmer, Mr. E. H. Russell, and by the secretary and agents of the Board.

The following is a list of topics presented in the day meetings, with the several persons employed in giving the instruction :—

Algebra.—James W. MacDonald.

Arithmetic.—G. I. Aldrich, A. W. Edson, G. T. Fletcher, Miss M. I. Lovejoy, James W. MacDonald, John T. Prince, B. B. Russell, George A. Walton.

Composition Writing.—J. W. Dickinson.

Drawing.—Henry T. Bailey, L. Walter Sargent.

English Composition.—Alice Shillabar Clement.

English Literature.—J. W. MacDonald, George H. Martin.

French.—Mary Stone Bruce.

Geography.—Miss Elvira Carver, Andrew W. Edson, E. W. Goodhue, George H. Martin, F. F. Murdoch, Louis P. Nash, W. T. Nichols, John T. Prince.

Geometry. — J. W. MacDonald.

Grammar. — Miss Emma C. Fisher, G. T. Fletcher, George H. Martin.

History. — A. C. Boyden, Miss Mary H. Davis, A. W. Edson, E. W. Goodhue, George H. Martin.

Illustrative Teaching. — J. H. Pillsbury.

Kindergarten Methods. — Miss Lucy Wheelock.

Language. — G. I. Aldrich, Miss Lizzie A. Beggs, A. W. Edson, Miss Emma C. Fisher, G. T. Fletcher, C. P. Hall, Miss Lizzie A. Mason.

Latin. — J. W. MacDonald, Frank W. Smith.

Method in Teaching. — J. W. Dickinson.

Nature Studies. — A. C. Boyden, Miss S. E. Brassill, Louis P. Nash, L. Walter Sargent.

Number Work. — Miss Lizzie A. Beggs, Miss Amy L. Boyden, Miss Lelia M. Lamprey, Miss M. I. Lovejoy, Miss A. Roach, George A. Walton.

Penmanship. — Miss Anna E. Hill, George A. Walton.

Philosophy of Method. — James W. MacDonald.

Physical Culture. — Addie McKechnie.

Physics. — Charles E. Adams.

Physiology and Hygiene. — A. C. Boyden, G. T. Fletcher, F. F. Murdock, S. W. Staebner.

Principles of Teaching. — J. W. Dickinson, J. T. Prince, E. H. Russell, G. A. Walton.

Reading. — G. I. Aldrich, Miss Lizzie A. Beggs, Miss Nellie E. Boyd, A. W. Edson, G. T. Fletcher, Miss Flora E. Kendall, Miss M. I. Lovejoy, John T. Prince, J. G. Thompson.

Rhetoric. — J. W. Dickinson.

School Management. — G. T. Fletcher, James C. Greenough.

Spelling. — G. T. Fletcher.

Teachers' Work. — Susan S. Fessenden.

Trip to Europe. — A. P. Stone.

Everywhere, in connection with our work in and for the schools, is manifested the utmost cordiality by the people. A striking example of this is the hospitable entertainment provided in the towns for the members of the institutes, and freely dispensed by public-spirited citizens, men and women.

School Committee and Superintendent Meetings.

During the year meetings were organized, consisting of school committees and superintendents, for the discussion of

the duties of their respective offices. Sixteen such meetings were held in the autumn months. Their location and management are shown in the following table:—

XXII. Table Showing the Location of School Committee and Superintendent Meetings, the Date of holding and the Number of Towns Represented.

WHERE HELD.		Date.	No. of Towns Represented.
Towns.	Counties.		
Ayer,	Middlesex, . . .	Oct. 25,	8
Brockton,. . . .	Plymouth, . . .	Nov. 14,	15
Buzzard's Bay, . . .	Barnstable, . . .	Nov. 10,	5
Fitchburg,	Worcester, . . .	Oct. 31,	12
Framingham,	Middlesex, . . .	Oct. 18,	9
Greenfield,	Franklin,	Oct. 16,	17
Harwich,	Barnstable, . . .	Nov. 9,	9
Lowell,	Middlesex, . . .	Nov. 6,	11
Northampton,	Hampshire, . . .	Sept. 28,	12
Norwood,. . . .	Norfolk,	Oct. 2,	7
Pittsfield,. . . .	Berkshire,	Oct. 12,	19
Salem,	Essex,	Nov. 20,	8
Somerville,	Middlesex, . . .	Oct. 23,	16
Springfield,	Hampden,	Oct. 11,	18
Taunton,	Bristol,	Dec. 15,	9
Worcester,	Worcester, . . .	Oct. 30,	33
Totals, 16			208

The attendance upon these meetings was, of course, not large. At nearly all, every town invited was represented, the school superintendent and one or more of the school committee being present. The whole number of towns represented at all the meetings was 208.

Among the topics discussed were the following : —

I. *Duties of School Committees.* — (1) To determine the number of schools a town shall maintain ; (2) to select and appoint teachers ; (3) to make out courses of studies ; (4) to provide text-books and supplies ; (5) to determine the method of teaching to be employed ; (6) to grade the schools ; (7) to establish the method of school government ; (8) to appoint janitors ; (9) to appoint truant officers ; (10) to have the care of school-houses ; (11) to apply the income of the school fund ; (12) to visit the schools ; (13) to appoint, direct and control superintendents of schools ; (14) to see that the school laws are obeyed ; (15) to make reports to the town and to the State.

II. *Duties which may be delegated by School Committees to Superintendents.* — (1) To select, examine and recommend teachers ; (2) to make out courses of studies ; (3) to examine and recommend text-books and secure supplies ; (4) to determine and direct the method of teaching ; (5) to grade the schools and make promotions ; (6) to establish the method of school government and aid in securing its enforcement.

III. *Duties to be shared by Committees and Superintendents.* — (1) To determine the number of schools the town shall maintain ; (2) to have the care of school-houses ; (3) to visit the schools ; (4) to see that the school laws are obeyed ; (5) to make reports to the town and to the State.

Primarily all the duties enumerated above are devolved by statute, or by virtue of their office as having general charge and superintendence of the schools, upon the school committees. More or less of these duties the committee may delegate at their discretion to the superintendent of schools as their agent. In directing the committee to employ such agent the town expects the committee to entrust to him certain duties which it is assumed he is more competent than they to perform. Hence it is wisdom on their part to discover what are these duties, to give the superintendent large liberty in regard to them, and having approved his plans, to hold him responsible for results.

On the other hand, the office of superintendent requires the exercise of good judgment in the use of powers thus delegated, that, keeping his mind upon results and acting up to his con-

victions of duty, the superintendent does not transcend his authority. The office is one that implies trust and confidence by all parties concerned.

Other topics treated were : —

IV. *Duties of School Committees.* — (1) In cities and in districts employing superintendents ; (2) in towns not having superintendents.

V. *Moral Duties of School Committees and Superintendents.*

VI. *School Grading and Promotions.* — (1) Consolidation and grading of schools ; (2) grading and promotions ; (3) grading of rural schools ; (4) system in ungraded schools.

VII. *School Supervision.* — (1) Ends and methods ; (2) manner and purpose of school visitation ; (3) difficulties encountered in work of supervision ; (4) ventilation of school rooms ; (5) school attendance.

VIII. *Teachers.* — (1) Relation of superintendent to teacher ; (2) the selection and retention of good teachers ; (3) what can be done for and with poor teachers ; (4) professional training and study for teachers ; (5) teachers' meetings ; (6) training schools.

IX. *Course of Studies.* — (1) What a course of studies should embrace ; (2) relative value of different studies and time to be given to each ; (3) results of recent changes in course of studies.

Conduct of the Meetings.

The meetings were called by the secretary of the Board, having been first arranged for by the agents in their several sections of the State. They were held one in each of the counties of Berkshire, Bristol, Essex, Franklin, Hampden, Hampshire, Norfolk and Plymouth ; two in each of the counties of Barnstable and Worcester, and four in Middlesex.

At most of the meetings a permanent organization was made by the choice of a chairman and secretary from the committees and superintendents present, and an executive committee, consisting of a superintendent, a school committee, and an agent of the Board.

The meetings were of the nature of conferences, in which, after brief openings by some one, a superintendent, committee,

the secretary or agent, the persons in attendance took part by asking questions, giving information, and entering into the discussions.

The number of towns represented at the several meetings was 208. When the holding of these meetings was suggested, there was general approval. They seem to be needed as a means of unifying and improving the work of supervision. If continued and properly conducted they must exert a large and healthful influence upon school methods and management.

SPECIAL SCHOOLS.

Education of the Deaf.

Every institution for the instruction of the deaf, dumb and blind when aided by a grant of money from the State treasury, shall annually make to the Board such a report as is required by sections sixteen and seventeen of chapter twenty-nine of other private institutions so aided. (Public Statutes, chapter 41, section 15.)

Deaf pupils are now sent to the Horace Mann School in Boston, to the Clarke Institution at Northampton, and to the American Asylum at Hartford, Conn.

AMERICAN ASYLUM (HARTFORD, CONN.).

JOB WILLIAMS, M.A., *Principal.*

Number of Massachusetts beneficiaries during the school year 1892-93,	66
Number admitted during the year,	7
Number in school at the present time,	55

The school year of 1892-93 was one of general good health and of commendable progress in all departments of the school. But two cases of serious illness occurred during the year, and in each there was speedy and complete recovery. The whole number of pupils under instruction during the year was 148, of whom 66 — 36 boys and 30 girls — were from Massachusetts.

No radical changes in the methods of instruction have been made, and no changes have been introduced merely for the sake of change, but old methods are constantly modified and improved, and new devices are introduced by which better results are secured, especially along the lines where there has been so much earnest controversy in recent years.

In no place is greater versatility required or the ingenuity of the teacher more taxed than in teaching the deaf. In no place

is experience more valuable or so absolutely necessary to secure satisfactory progress of pupils. This school has been exceptionally fortunate in retaining skilful teachers through long periods of service, and the pupils have reaped the advantage of their experience and skill. The teacher's intimate knowledge of the peculiarities of deaf children and of their special difficulties, gained by long association with them, is a very important part of his qualification for his position, and enables him to accomplish results which would be impossible of attainment without it.

Increased attention is given to the teaching of speech and speech-reading, and while some fail to reach satisfactory results, a large percentage attain a degree of proficiency that will be useful to them at home and among friends, and a smaller percentage will be able to communicate quite readily by speech with strangers. Several of our older classes have the daily habit of pronouncing all their lessons. Every means is used and the utmost effort is made to give the pupil a thorough understanding of the English language, as without that there can be no successful speech or speech-reading.

Manual training is a part of the regular school course, and every boy of suitable age spends three hours a day in acquiring a knowledge of tools and of their use and care, and in the actual manufacture of goods for market. The training of the hand is also a training of the mind and of the judgment, and at the same time fits a boy to earn living wages as soon as his school days are over, to say nothing of the value to him of the habits of industry which he has acquired.

Among the supervisors changes have been unusually frequent. Mr. James H. Cornwall, always faithful and reliable, after four years of efficient service, resigned his position July 30, 1892, was married to Miss Etta M. Bradley, who had been with us one year, and went to Ohio, where both assumed positions of greater responsibility and better remuneration in one of the public institutions of that State. Mr. J. J. Towle and Mr. M. K. Peck were with us for a few months, and Mr. L. H. Holt, Mr. Frank W. Wood, and Miss Helen M. Webster have filled the supervisors' positions since September, 1892.

A new feature of the school has been instruction in Swedish gymnastics. This branch is under the direction of Miss Kath-

erine F. Smith, a graduate of the Boston Normal School of Gymnastics. More than a year's experience with it has fully confirmed our anticipations of the benefit to be derived from regular, systematic drill in this system. Besides the general physical benefits derived from it, and the habits of attention and prompt obedience cultivated, many stooping shoulders have become erect, and the gait and carriage of the pupils have been improved.

For the past two years Mr. A. S. Clark has given his class instruction in photography out of school hours, an exercise which has proved very pleasant and profitable to them, and some of them will continue to practise the art.

Mr. A. H. Pitkin has given a camera and a quantity of photographic material for the use of the pupils.

The Seventh Conference of Principals of Institutions for the Deaf met at the Colorado Institution for the Deaf and Dumb at Colorado Springs in August, 1892, and was entertained with generous hospitality. Four days were occupied with the reading of important papers and in the discussion of matters bearing on deaf-mute education. The most important matter considered was the establishment of a free technical and industrial school for the deaf of the whole country, and a committee was appointed to devise means for the accomplishment of that object.

The biennial period just closed has been a season of steady progress and general prosperity in our institution, due chiefly to the intelligent, cheerful, and conscientious co-operation of teachers and officers in all plans for the welfare and progress of those committed to our care.

CLARKE INSTITUTION (NORTHAMPTON).

Miss CAROLINE A. YALE, *Principal*.

Number of Massachusetts beneficiaries during school year, 1892-93,	99
Number admitted during present year (Massachusetts),	9
Number in school at present time (Massachusetts),	104

The institution had a larger number of pupils than ever before, occupying three independent boarding establishments instead of two, with school rooms connected with each. This served for the better separation of pupils of different ages and

attainments, as well as a safeguard against the spread of any contagious disease through the whole institution.

The number of pupils instructed was 126 — boys 64, girls 62; in the primary department, 71; in the grammar department, 55; boarding pupils, 123; day pupils, 3. The number present at the close of the school year was 122. Of the whole number 101 were from Massachusetts, 7 from Vermont, 6 from New Hampshire, 2 each from New York and Alabama, and 1 each from Rhode Island, Connecticut, Pennsylvania, Maryland, Georgia, Minnesota, Ohio, and the District of Columbia. The number instructed in drawing was 43; in wood carving, 43; in cabinet work, 25. The older girls were also practically initiated in household duties.

At the end of the second session four pupils were graduated with appropriate public exercises. As many invited guests were present as the limited capacity of our public hall would admit. Essays by each of the graduates were read, and exercises with other classes were had by their respective teachers, by way of enlightening the public as to the methods of instruction here pursued and the results attained.

As none of the teachers withdrew at the end of the year, the present session opens with instructors all of whom have had more or less experience. Heretofore, various contingencies have robbed the school of one or more experienced teachers nearly every year, and no experts in the oral method of instruction were to be had elsewhere. More than all this, the adoption of the oral system in whole or in part in many other institutions created a demand for trained teachers.

It was mentioned in the last report that the school had been asked to allow other teachers to study with those preparing for work in this school. These teachers passed an entrance examination such as other teachers pass. Their study during the year embraced subjects connected with language teaching, general mental development of deaf children, methods of instruction in speech and lip-reading, physiology and anatomy of the vocal organs, history of deaf-mute instruction, etc. Each teacher taught under direction three hours daily, and observed class instruction two hours. In every case the teacher observed a class of the same or nearly the same grade as the one in which she was at that time teaching. Much of

that which was most valuable was thus the free gift of the more experienced teachers of the school. But for their ready co-operation little could have been accomplished. The teachers graduating from the normal class last June were Miss Edith Brown, Miss Mary Church, Miss Jane Lucas, Miss Maria A. Rogers, Mr. Edwin Stanley Thompson, and Miss Hannah Wells. Miss Wells was one of the regular teachers for the whole year. Miss Rogers took the place left vacant by the marriage of Miss Hickok in February. Mr. Thompson is acting as a substitute for Miss Wright, whose enforced absence on account of ill health we regret. The other three members of the training class are now engaged in other institutions. It has been decided by the board that this experiment be continued during the coming year. From a considerable number of applicants four only have gained entrance to the class. Two or three others may be admitted before the close of the present month.

In June a class of four pupils graduated from the school—Bertha H. Dutton, Heber N. Haynes, Mary K. Trainor, and Alice L. Ware. The work done by this class was of a higher grade than that done by any graduating class for years and their diplomas indicated that fact. It is expected that at least two members of this class will enter other schools—one is already in a public high school and the other will enter a private school for young ladies.

A World's Congress of Teachers of the Deaf was held in Chicago during the month of July, and the American Association to Promote the Teaching of Speech to the Deaf also held its annual business meeting at that time. Several of the teachers were in Chicago and attended some of the sessions. By request the principal of the school prepared a brief paper which was presented to the congress.

HORACE MANN SCHOOL, BOSTON.

MISS SARAH FULLER, *Principal*.

Number of Massachusetts beneficiaries during the school-year 1892-93,	108
Number admitted during the year,	19
Number of Massachusetts beneficiaries in school Nov. 17, 1893,	97

The Horace Mann School opened on the 7th of September, 1892, with 95 pupils—40 boys and 55 girls. During the

year 21 pupils were admitted and 13 discharged. Of the latter number, 3 were withdrawn on account of ill health, 3 removed to distant towns and 7 went to work.

The inquiry, what occupations are open to deaf boys and girls? may be answered by naming some of those to which the pupils of this school have gone and in which they have found pleasure as well as profit. They are those of the cabinet-maker, carpenter, lather, mason, painter, brass-worker, harness-maker, tanner, stableman, fisherman, farmer, lumberman, diamond-cutter, engraver, tool-maker, compositor, printer, milliner, dressmaker, artist, writer and factory operative, — watch, parasol, shoe, tack and rubber. The value of preparatory training for industrial pursuits, which the children in this school receive, through sloyd, sewing and typesetting, become more and more apparent each year. On leaving school many of the pupils go directly to shops and to printing offices, and take places with as much acceptability to their employers as hearing persons, and the long term of service of some is a good indication of their worth.

Evidences of the success of pupils who have entered schools for the hearing continue to multiply, and generous friends still extend aid to pupils whose families are unable to meet the cost of instruction at private schools.

The following extract is taken from a note received from the father of a boy who left the Horace Mann School to enter a private school with hearing boys and girls: —

The examination papers brought home by ——— last June are very gratifying to me, showing excellent work, the result of intelligent and earnest teaching at your school. Perhaps you may like to know what strangers think of your work. Last summer ——— wrote to an elderly friend giving accounts of his fishing, etc., during his vacation. The letter was seen by a teacher, who asked permission to show it to her class of boys, fifteen to sixteen years old, saying that the thoughts were well expressed, every paragraph was perfect and only one mistake, which was evidently a slip of the pen.

The high ranking taken in higher schools by your graduates shows that children who are deaf can make good progress in the world.

The Horace Mann School for the Deaf is somewhat unique in its position, its work and its influence. It is a day school

in contrast to "an institution;" it prepares its pupils for admission to schools with hearing pupils, where they successfully pursue the prescribed courses of study; through the influence of the Horace Mann School the first infant school for the deaf in America was established.

The record of the Horace Mann School during the past year contains much that is of unusual interest to all its friends. In common with other public schools in the State, the pupils prepared for the Columbian Exposition various school exercises, representing the different grades of work in both primary and grammar departments. This exhibit was creditable alike to pupils and teachers. The contributions from the sloyd and sewing classes were among the best sent from Massachusetts.

"A Course of Study" for the school was revised and printed in pamphlet form.

A brief history of the school was prepared by the principal and sent to the Volta Bureau, in Washington, D. C., to be printed and bound with histories of schools for the deaf in America. Copies of this work are to be distributed to libraries throughout the world.

At the World's Congress of Instructors of the Deaf, held at Chicago in July, this school was represented. Among the ten-minute papers read at the congress was one upon "Day Schools for the Deaf," by the principal of this school. In consequence of the peculiar interest in this subject at the present time, a part of the paper is appended to this report.

Among the many benefits to the young deaf child resulting from his life at home while beginning his school life may be mentioned the following: The gradual acquaintance with the new life opening before him; the meeting and mingling with strange figures and strange faces for a few hours each day, and then a return to the familiar and known belongings; the daily going, with its attendant varying experiences, to and from the school; the encouragements, in all the little school tasks, from the interested family and its watchful care in noting the progress and aiding the efforts of the child; and the indirect help from playmates, whose games give ample scope for juvenile ideas of justice and fair dealing. Said the father of an eight-year-old boy, a short time since, in reply to the question, "Does your son play with other boys?" "Yes, indeed, and he knows his rights, too, for when in a game of marbles he thinks there

is not fair play, he goes through the pockets." Ball-playing, croquet, tennis and military drill all serve to cement the bonds of sympathy between deaf and hearing children and test the right of one to the admiration of the other.

As the school work progresses and the pupil's mental outlook widens the influence of the home life becomes invaluable. The simple school exercises, which at first were a wonder and delight to the family, are succeeded by lessons for home study that would not suffer by comparison with those assigned to the hearing brother or sister. Books and papers that keep the family in touch with the outside world are sought and read to him, with the added inducement to be able to communicate to his teacher and fellow students new facts from his accumulating stores of knowledge. Neighborhood gatherings, social meetings, Sunday school and church organizations all form a part of the home education to which unconsciously every member contributes. In these and kindred opportunities the deaf child has foreshadowed for him the experiences which life will bring, and, as in everything else pertaining to his future, preparation that comes in a natural way is the best.

While the majority of pupils in a day school go directly from it into the various industries which furnish them with the means for a livelihood, there are others for whom it is a preparation for admission to schools with their hearing companions. These pupils have constantly before them strong incentives for study and close application. To take good rank in beginning work with new classmates, to be equally qualified in all branches studied, to speak well and to be able to understand the speech of those about them are the spurs that rouse the ambition of all who anticipate spending the closing years of their school life with pupils who hear.

Some one has wisely said, "What we make our children love and desire is more important than what we make them learn." Is there any object of love of greater importance than the home, and can we render to the future men and women of our land a greater service than by developing in them a love for home and all that it represents? While they are yet school children may we not help them, through their home life, to realize that all mankind is but one family and that to make a true home for this family should be the chief desire of all its members?

PERKINS INSTITUTION AND MASSACHUSETTS SCHOOL FOR THE BLIND.

M. ANAGNOS, *Director*.

The sixty-second annual report of this institution, for the year ending Sept. 30, 1893, records 237 blind persons con-

nected with the establishment. Of these 156 belong to the school proper at South Boston, 65 to the kindergarten at Jamaica Plain, and 17 to the workshop for adults. Those belonging to the school proper may be classified as follows : —

Pupils in the boys' department,	78
Pupils in the girls' department,	62
Children in the kindergarten,	64
Teachers and employees,	13
Domestics,	3
	<hr/>
	220

Number of Massachusetts beneficiaries,	114
Number of adults belonging to Massachusetts,	27
Number of blind persons belonging to other States,	96
	<hr/>
	237

While the past year has witnessed the continued prosperity and decided progress of the school as a whole, the increased efficiency of several departments is specially noticeable. The new buildings which have been completed and occupied during the year have provided enlarged accommodations for the music department, the library, the gymnasium and the kindergarten, and have thereby afforded to each the means of extending and improving the work.

The department of music has received due recognition and support. Ample room and an adequate supply of instruments furnish a complete equipment for thorough study and practice of music. The work in the tuning department has been carried on with great regularity and with satisfactory results.

The operations of "the Howe Memorial Press" continue to be very beneficial to the blind of New England. Many valuable books in raised print have been issued during the year and are now in circulation. They are loaned to all applicants, free of charge.

Appliances and apparatus of the best and newest design have been used in fitting up the new gymnasium, and increased attention has been paid to physical culture, which constitutes a prominent feature in the curriculum of this institution. Each division into which the school is classified receives instruction and training for forty-five minutes on four days of the week.

The completion of a second house at Jamaica Plain made it possible to admit many children who had long awaited an

opportunity to enter the kindergarten. When the new building was opened, in January of the present year, two families were formed, one of girls, the other of boys, each with its complement of teachers and officers.

The aim of the literary department of the institution has ever been to afford to the recipients of its benefits a sound English education. The course of study is similar to that pursued in the best public schools of the State. A high standard of thoroughness has been maintained.

A creditable display of work has been made by the several departments of the institution proper, together with the kindergarten, at the World's Fair. Ample space was secured in the Liberal Arts Building, and the various articles forming the collection were effectively arranged and displayed to good advantage. The entire exhibit has attracted much attention and has been favorably noticed.

A systematic course of training and instruction has been pursued by the three blind and deaf children who are connected with the institution.

Edith M. Thomas, who is the eldest of the three, has maintained a good standing in the same class with girls of her age in the South Boston school. All the work which is required of each member of the class is done by Edith seemingly with equal ease and facility. The special teacher interprets to her, by means of the manual language, the instruction which is given to the class by the teacher in charge. Edith enjoys sharing the lessons with others. Her interest in study has been quickened by this association, while her ambition, a dominant trait, has found a safe and worthy object in competing with her classmates. Her mind is healthy and vigorous, and she exhibits some originality in thought and in the application of truths which are presented for her consideration. The skill in manual dexterity which was so early displayed is no less remarkable now, and the ability to use tools, which her training in sloyd has given, continues to afford a means of great pleasure and enjoyment. Without exceptional talent in any one direction, Edith proves to have an evenly balanced mind, and her progress in development and acquisition is both steady and constant.

Willie Elizabeth Robin has now for nearly three years been

a pupil in the kindergarten. She has made such rapid progress in acquiring knowledge and the power of expression, and withal has developed into such an alert, eager, wide-awake child that it is difficult to realize that in this short time so much mental power has been unfolded by the sense of touch alone. In many respects Willie is a model "little woman." She is industrious, with a desire to be helpful; she is thoughtful for others and manifests a deep sense of responsibility. She possesses very correct notions of neatness, order and method. In person Willie is attractive, with dainty ways and refined manner. In disposition she is as affectionate and loving as she is winning and lovable. During the year Willie has received instruction in classes with other children and she has made commendable progress. She can articulate with considerable distinctness and is encouraged in her efforts to communicate with others by this means.

Tommy Stringer has also been introduced into regular classes during the year with very gratifying results. The passivity which he manifested at first has given place, with awaking intelligence, to animation and even eagerness. Tommy has emerged from the state of babyhood and he is found to be master of all the usual boyish traits. His teachers report many interesting incidents of daily life showing his roguishness and love of fun. But he is a most engaging and affectionate child, with no lack of good mental endowments, and he is certainly worth all the effort which is made in his behalf.

THE MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED, WALTHAM.

WALTER E. FERNALD, M.D., *Principal.*

Number of Massachusetts beneficiaries at beginning of school year, 1892-93, . . .	174
Number admitted during the year,	39
Number discharged during the year,	24
Number transferred to custodial department,	49
Number transferred from custodial department,	5
Number of Massachusetts beneficiaries, Oct. 1, 1893,	145

The number of feeble-minded persons of all descriptions now present in the institution is 420. Of these, 145 are beneficiaries of the Commonwealth in the school department; 53 are supported by the Commonwealth in the custodial department; 165 are supported by cities and towns in the custodial

department ; 29 are private pupils supported by their parents or guardians, who with two exceptions pay us only the actual cost of maintenance and instruction ; and 28 are beneficiaries of other States, paying according to the statute each \$300 per year. The average number of all descriptions has been 398. The number in the school department is 29 less than at the close of the school year of 1892, but is the same as it was at the close of the year 1891.

In February last a necessary reclassification of the school was made which resulted in the transfer of about 50 children from the school to the custodial department. They were mostly cases that had been long in the school and were too old for further school instruction, but for whom there seemed to be no other proper resting place. The additional income resulting from this transfer has enabled us to keep up the repairs of the establishment, to procure a full stock of farming implements and a complete outfit of tools and apparatus for manual training department, to provide ample fire-escapes, to make an addition to the school-house and gymnasium, for a storeroom, and even to build a small carpenter shop, all charged to our current expenses, without increasing the hitherto average cost of each inmate. The vacancies in the school department were becoming necessary for the admission of young children of feeble minds that have a claim upon the Commonwealth for education, and they are rapidly filling up. It was said in our report a year ago that every child of feeble-mind belonging to this State capable of benefit from school instruction that had applied for admission during the preceding year had been admitted and taken care of without expense to the parents or place of residence. The same may be said of the year just past.

Of the inmates of the school in both departments, 118 are females over fifteen years of age.

The usual annual appropriation of \$25,000 was received from the Commonwealth for the instruction and support of pupils in the school department ; also \$10,138.38 for custodial cases supported by the Commonwealth.

With the exception of a mild epidemic of measles, in which there was not a fatal case, the health of the 400 inmates has been good.

More has been accomplished during the past year to ameliorate the condition of idiots and feeble-minded persons belonging to the Commonwealth than in any previous year in the history of the Commonwealth. Four hundred members of the human family, many of whom had they lived at a period sixty years since would have been left in utter neglect, and many of whom would have gone from bad to worse, now receive from a generous public all the care and all the essentials of life that humanity can command. The trustees ask nothing more than is now freely given them on behalf of the four hundred persons that have been committed to their charge. But there are more than 3,000 feeble-minded persons in the State, and our dormitories are full.

The applications for admission the last year numbered 190, — a larger number than in any previous year.

We have been able to accept the application of every child of the school age and grade, every young custodial case and every adult female. We have been compelled to postpone or decline the application of quite a number of adult male cases, some of them epileptics. Of the 101 admissions 63 were of the school age and grade, and were received in the school department. Some of these children have already been greatly improved by the school discipline and training. There were 15 boys and 22 girls over fourteen years of age. Among the cases admitted in the custodial department were 37 with untidy habits, 15 were epileptic, 12 were partially paralyzed, 6 unable to feed themselves and almost entirely helpless, and 2 were totally blind. One of the females has borne 1 and another 4 illegitimate children.

Of the 65 discharges, 45 were kept at home by parents or friends for various reasons, 7 were removed by order of overseers of poor, 8 were insane, 4 Rhode Island beneficiaries were removed by the State authorities to make room for other cases and 1 was transferred to the State Almshouse.

It is pleasant to record the fact that 8 of our pupils so improved and developed that they remained at home to attend the public schools. Seven of the cases discharged were kept at home to work. One young man has been steadily at work in his father's factory for nearly a year, and is "doing a man's work." Another has obtained a good situation on a farm

where he is earning fair wages. Another is at work in a cotton mill in Fall River. Another works every day with his father, who is a carpenter. Three young women who have been in our school and training department since childhood have been kept at home to assist with the domestic work. Of course these are exceptional cases, but they illustrate the practical character of the instruction given in the school.

The general health of our inmates has been unusually good. It is a fact approvingly noted by parents and friends that nearly every child admitted becomes stronger and more robust than they have ever been before. Each year in the custodial department we receive a certain number of feeble children, sickly and puny from birth, predestined to a short life of misery and suffering, who come to us only to be tenderly nursed and cared for until death mercifully comes to their relief.

The school work has been uninterruptedly carried on, upon the lines specified in detail in the last annual report. The system of graded class exercises, for the majority of our pupils, has more than fulfilled our expectation. The pupils have never been more attentive and ambitious, and have never made more substantial progress. The work of some of the classes in reading and penmanship would do credit to any public school. We have seen especially good results from the systematic brain and muscle discipline, resulting from the manual training exercises. The patience, zeal and tact so uniformly shown by the teachers deserve the warmest commendation. It is very pleasing to note the fact that, as a rule, the parents of these pupils are very appreciative and grateful for the improvement shown by their children.

The current expenses have amounted to \$66,035.64, or \$3.18 per week for each inmate. The schedule of expenditures shows in detail how this sum has been expended. The reduced per capita cost is largely due to the utilization of the food products from the farm and garden supplied at very small actual expense. During this year the farm has been thoroughly equipped with wagons, tools and farming implements. A substantial and convenient frame carpenter's shop has been built at a cost of a little less than \$600. A large brick closet for the storage of school apparatus has been added to the gymnasium building at

a cost of \$565.15. Hitherto we have had no suitable place for winter storage of vegetables, but the excavation has been made and materials purchased for the construction of a large underground roof cellar, which will be ready for use within a few weeks. The expense of these and other minor additions to our plant has been charged to current expense account. The institution is now very thoroughly equipped with the necessary tools, machinery and other appliances for economically and efficiently carrying on the work of providing for the wants of our inmates.

The construction of a sewer to connect the institution grounds with the Waltham division of the Metropolitan Sewerage System, for which purpose an appropriation was granted to the city of Waltham at the last session of the Legislature, has been under way all summer and will probably be ready for use within a few weeks. The completion of this sewer will do away with the disposal of sewage on our own grounds.

The Legislature appropriated \$1,000 for the construction of connections between the present sewers on our grounds and the new branch of the city sewer. This work involved the laying of 1,564 feet of six and eight inch pipe and is now completed ready for use. The trenching and filling for this sewer was done entirely by the labor of our large boys. If this work had been done by paid labor, it would have cost at least \$350. The total cost of this work was well within the special appropriation.

The Legislature also appropriated \$8,000 for the construction of a detached hospital building, especially for the isolation and treatment of contagious and infectious diseases. Contracts have been made for the erection of the building within the limit of the sum appropriated. This building will be of brick and stone, one story in height, with two small wards, nurses' room and toilet room. This building is now being constructed and will be ready for occupancy before the close of the year. We shall then be able to promptly quarantine any case of contagious or infectious disease which may appear among our inmates. It will also provide us with much needed facilities for the proper treatment of cases of acute illness.

*Amount Expended for Instruction of Deaf Children During the Year.**Paid Clarke Institution.*

97 pupils for quarter commencing Jan. 1893,	\$4,225 63	
97 pupils for quarter commencing April 1, 1893,	4,243 75	
97 pupils for quarter commencing July 1, 1893,	4,243 75	
103 pupils for quarter commencing Oct. 1, 1893,	4,506 25	
	————	\$17,219 38

Paid Horace Mann School.

99 pupils from Feb. 1, 1893, to July 1, 1893, .	\$5,089 92	
95 pupils from Sept. 1, 1893, to Feb. 1, 1894, .	4,584 80	
Transportation and board of pupils,	1,766 28	
	————	11,441 00

Paid American Asylum.

64 pupils for quarter commencing March 1, 1893,	\$2,831 25	
63 pupils for quarter commencing June 1, 1893,	2,787 50	
55 pupils for quarter commencing Sept 1, 1893,	2,437 50	
55 pupils for quarter commencing Dec. 1, 1893,	2,437 50	
Clothing furnished beneficiaries for the year ending July 1, 1893,	311 30	
	————	10,805 05
Kindergarten for Blind, support of Edith Thomas,		300 00
		————
		\$39,765 43

MASSACHUSETTS SCHOOL FUND.

An act of the Legislature passed in 1834 established the Massachusetts school fund. Chapter 139 of the Acts of that year provided that "all moneys in the treasury derived from the sale of lands in the State of Maine, and from the claims of the State on the Government of the United States for military services, and not otherwise appropriated, together with fifty per centum of all moneys thereafter to be received from the sale of lands in Maine, shall be appropriated to constitute a permanent fund for the aid and encouragement of common schools, provided that said fund shall not exceed one million dollars."

In 1854 an important act (chapter 300) was passed, providing for the increase of the fund by the transfer "of such a

number of the shares held by the Commonwealth in the Western Railroad Corporation, as will, at the rate of one hundred dollars a share, increase the principal of said fund to the amount of one million five hundred thousand dollars."

Again, by chapter 154 of the Acts of 1859 it was provided in section 3 that "all the avails of the moiety of the sales of public lands which by the provisions of the seventeenth chapter of the Resolves of the year one thousand eight hundred and fifty-seven inure immediately to the use of the Commonwealth, and the use of which is not otherwise provided for in this act, shall be added to the principal of the Massachusetts School Fund."

This act contemplated an indefinite increase of the school fund; had there been no adverse legislation it would ere this have reached five or six million dollars. The first diversion from the fund was made in 1861, when \$232,790 was given in the form of land to the Massachusetts Institute of Technology and the Boston Society of Natural History. An exigency arose during our late civil war, which was met by another diversion from the fund; this was the necessity of providing means for the payment of the large sums raised by the State for recruiting and sending forward troops. In 1864, chapter 313, the Legislature created a fund by the issue of State scrip, not exceeding ten million dollars, to be called the Massachusetts bounty fund, and created a sinking fund for the payment. Towards this sinking fund the Legislature appropriated all the receipts from the sale of Back Bay lands, less the expense of commissioners and of filling and preparing the lands for sale, and including the portion now by law made payable to the Massachusetts school fund, as soon as said fund shall have reached the amount of \$2,000,000. The whole amount paid under this statute into the school fund was \$456,930.06, "or less than fifteen per cent. of the estimated profits of the enterprise."

The fund was increased in the year 1882 by a change of Boston & Albany Railroad stock for bonds at a premium. This advanced the fund from \$2,086,887.01 in 1881 to \$2,711,262.26 in 1882, the increase being \$624,375.25. The fund was further increased in the year 1891 by the United States war claims collected, amounting to \$12,043.75, and by United States direct tax of 1861, recently refunded, \$696,107.88, a total of \$708,-

151.63, making the present fund \$3,665,761.88, which is an increase from 1877 of \$1,597,971.34.

Great credit is due Mr. George A. Marden, Treasurer of the Commonwealth during the past five years, for the watchful and fostering care bestowed upon the State school fund. It was largely through his influence, with a liberal-minded legislature, that the recent additions were secured to the fund and that an increasing ratio of the income is bestowed upon the smaller and poorer towns of the State.

The establishment of the school fund, in connection with the organization of the Board of Education, wrought a reformation in the character of the public schools. It was not the purpose of the Legislature in establishing the fund to relieve the towns from the support of their schools, but to furnish aid and encouragement. By it the State established a necessary relation between its own control and the control of the towns over the management of the public schools.

With the fund it is possible to obtain accurate and full returns, and to communicate to the Legislature and to the people all the material facts relating to the condition of the public schools. It enables the authorities to execute the school laws, and to establish a uniform system of schools throughout the Commonwealth. It greatly aids the towns in supporting such schools as the statute requires the towns to maintain, and with recent changes is especially helpful to the towns most needing aid.

The method of distribution of the income of this fund was first provided for by the Legislature of 1835. Amendments to the original law for the distribution of the fund have several times been made.

The law of 1874 was in force when the writer entered upon the duties of his office. This law limited the distribution of one-half of the income of the fund to towns whose valuation did not exceed \$10,000,000. Then towns were divided into four classes:—

I. Towns whose valuation did not exceed \$1,000,000 each received \$200 per annum.

II. Towns whose valuation exceeded \$1,000,000 and did not exceed \$3,000,000 received \$150.

III. Towns whose valuation exceeded \$3,000,000 and did not exceed \$5,000,000 received \$100.

IV. Towns not exceeding \$10,000,000 of valuation, including the above classes, were to receive the residue of the half of the income, which was to be distributed among them in the ratio of their population between five and fifteen years of age.

The law as amended in 1884 continued the former classification of towns, and limited the distribution of the half of the income of the fund to towns of a valuation not exceeding \$10,000,000, as follows:—

I. Towns whose valuation did not exceed \$500,000 each received \$300 per annum.

II. Towns whose valuation exceeded \$500,000 and did not exceed \$1,000,000 received \$200.

III. Towns whose valuation exceeded \$1,000,000 and did not exceed \$3,000,000 received \$150.

IV. The residue of the half of the income continued to be distributed to towns not exceeding \$10,000,000 of valuation, in the ratio of their population between five and fifteen years of age.

The law was again amended in 1891. The same classification of towns continued. The towns to receive any part of the half of the income of the fund were limited to those whose valuation did not exceed \$3,000,000. The basis of distribution was so changed that after certain lump sums were given to the four classes of towns the residue of the half of the income was apportioned to the towns included in the four classes according to the ratio of their school tax to their whole tax. The distribution of the lump sums was as follows:—

I. Towns whose valuation did not exceed \$500,000 each received \$275.

II. Towns whose valuation exceeded \$500,000 and did not exceed \$1,000,000 received \$200.

III. Towns whose valuation exceeded \$1,000,000 and did not exceed \$2,000,000 received \$100.

IV. Towns whose valuation exceeded \$2,000,000 and did not exceed \$3,000,000 received \$50.

The distribution of the residue of the half of the income

was limited to towns whose school tax was not less than one-sixth of their whole tax, and was made as follows:—

I. Towns whose school tax was not less than one-third of their whole tax were to receive a proportion expressed by the fraction one-third.

II. Towns whose school tax was not less than one-fourth of their whole tax were to receive a proportion expressed by the fraction one-fourth.

III. Towns whose school tax was not less than one-fifth of their whole tax were to receive a proportion expressed by the fraction one-fifth.

IV. Towns whose school tax was not less than one-sixth of their whole tax were to receive a proportion expressed by the fraction one-sixth.

In other words, the ratio of the distribution of the residue among these several classes of towns was to be as 20, 15, 12 and 10.

The law of 1893 amended the law of 1891 by providing that the lump sum given to towns whose valuation does not exceed \$500,000 shall be \$300. With this amendment the law of 1891 is at present in force. Under all these laws provision is made for the payment of general educational expenses out of the half of the income of the school fund not distributed to the towns.

The general principle upon which the laws are based is that the half of the income applied directly to the schools shall be given to the towns of low valuation and that the distribution shall be in the inverse ratio to their valuation. The law of 1891 introduced a new element into the basis of distribution, which is the ratio the sum appropriated by the town for school purposes bears to the sum appropriated for all town purposes; here the part of the income of the fund applied to the towns is in the direct ratio to the ratio the school tax bears to the whole tax.

It will be noticed that progress has been made in the direction of limiting the distribution of the income of the fund to classes of towns of lower and lower valuation, and of giving an increased lump sum to the towns of these classes which have the lowest valuation; thus by the laws of 1874 and 1884 a

proportion of the income was paid to towns having a valuation as high as \$10,000,000, while the law of 1891 limited the distribution to towns not exceeding \$3,000,000. Again, the law of 1874 distributed \$200 to all towns whose valuation did not exceed \$1,000,000, while the laws of 1884 and 1891 increased the lump sum to \$300 and lowered the valuation to \$500,000.

The present law has a tendency to encourage the towns to make liberal appropriations for the schools.

A considerable enlargement of the fund, to twice its present amount, is needed; it should be directed in the same channels as at present provided for. A large additional sum is needed to increase the number and the efficiency of the normal schools, and to secure to the small towns teachers better qualified and with greater stability in office. I trust laws will be enacted by the Legislature providing for such increase.

Income of Massachusetts School Fund, 1893.

Cash on hand Jan. 1, 1893,	\$81,827 27
Income for 1893,	155,556 85
	<hr/>
	\$237,384 12
 Paid cities and towns in 1893,	 \$81,827 27
Paid accrued interest on securities purchased,	12,701 38
Paid educational expenses, 1893,	77,778 43
	<hr/>
	\$172,307 08
 Cash on hand Dec. 31, 1893,	 \$77,778 43
From which there is to be paid to cities and towns in 1894,	77,778 43
 The Massachusetts school fund amounted Dec. 31, 1893, to	 \$3,670,548 14

TRAINING SCHOOLS.

By the last returns to the Board of Education it appears that there are now in the State 143 special superintendents of the public schools. More than 88 per cent. of our school children are in schools directed by skilled supervision. As the superintendents become aware that the schools committed to their care will be what the teachers make of them, they see the necessity of employing teachers who have had special training for their work.

The normal schools have thus far furnished no more than about one-third of the teachers required to teach in the public schools. To supply the deficiency training schools have been established in many of the larger towns of the Commonwealth. There are now in the State about twenty-five of these schools, located in the following-named towns: Adams, Boston, Cambridge, Chelsea, Concord, Fall River, Fitchburg, Harwich, Haverhill, Holyoke, Lawrence, Lowell, Lynn, Malden, New Bedford, Newburyport, North Adams, Provincetown, Springfield, Quincy, Watertown, Weymouth and Woburn.

While all teachers will be improved by a course of pedagogical training in one of these training schools, there is great danger that the instruction to which they are exposed will turn their attention simply to forms of communicating information rather than to the conditions of knowledge and mental development. This must be true whenever the exercises of the training school consist chiefly of training, without constant reference to the principles of teaching, to the ends to be accomplished, and to the conditions that must be observed.

It would be well if those who are admitted to the country training schools were already graduates of some normal school or of some institution where they have received a liberal education. Such persons would be prepared for intelligent practice in the training schools, and in due time for active service in the public schools.

Before entering upon the work of teaching, the candidate should be familiar with the essential properties of the art as founded on principles and illustrated by practice. He must know the ends which the public schools are intended to promote, the true order of elementary and scientific instruction, and to be able to select and use the most improved means of teaching. He must have the ability to control the children by the use of those principles of action which prepare the mind for self-control. There is now a demand for trained teachers. This demand is growing more imperative as the processes and results of education are more fully understood.

Educational progress is quite largely dependent upon the accomplishment of two ends:—

First. The professional training of a sufficient number of teachers for all the schools in the Commonwealth.

Second. State aid for the small towns sufficient to enable them to secure trained teachers for their schools and to retain them in their places.

We must depend on the normal schools for a supply of trained teachers.

Aid for the Small Towns.

Our State school fund now amounts to \$3,665,761.88. There will be paid from the income of this fund, to cities and towns having \$3,000,000 of taxable property and less, \$81,827.27 in 1893. A discrimination is made in the distribution of this income in favor of the smaller towns. The aid thus received is of great value to the country schools, but is not enough in many cases to furnish them with the best teachers and to prevent the best from leaving their country places for higher salaries.

We need increased facilities for training the teachers, and more money to pay them for their services.

The first may be produced by an increase in the number of our normal schools, or by a thorough organization of training schools; the second by an enlargement of the school fund or by a general tax.

SUPERINTENDENTS OF SCHOOLS.

By the statistical report, page 75, it appears that there is an increase for the year in the number of superintendents employed, and as a consequence a larger number of schools and of children are brought under this form of supervision. By the amendments of 1893 to the law of 1888, added facility was given to the small towns to unite for the employment of superintendents.

The text of the law as amended is as follows:—

1. Any two or more towns the valuation of each of which does not exceed two million five hundred thousand dollars, and the aggregate number of schools in all of which is not more than fifty nor less than twenty-five, may, by vote of the several towns, unite for the purpose of the employment of a superintendent of schools under the provisions of this act.

2. When such a union has been effected the school committees of the towns comprising the union shall form a joint committee, and for the purposes of this act said joint committee shall be held to be the agents of each town comprising the union. Said committee shall meet annually in joint convention in the month of April at a day and place agreed upon by the chairman of the committees of the several towns comprising the union, and shall organize by the choice of a chairman and secretary. They shall choose, by ballot, a superintendent of schools; determine the relative amount of service to be performed by him in each town; fix his salary, and apportion the amount thereof to be paid by the several towns, and certify such amount to the treasurer of each town.

When such a union has been effected it shall not be dissolved because any one of the towns shall have increased its valuation so that it exceeds two million five hundred thousand dollars, nor because the number of schools shall have increased beyond the number of fifty or decreased below the number of twenty-five, nor for any reason for the period of three years from the date of the formation

of such union, except by vote of a majority of the towns constituting the union.

3. Whenever the chairman and secretary of such joint committee shall certify to the State auditor under oath that a union has been effected, as herein provided, that the towns in addition to an amount equal to the average of the total sum paid, or to the sum paid per child, by the several towns for schools during the three years next preceding, unitedly have raised by taxation and appropriated a sum not less than seven hundred and fifty dollars for the support of a superintendent of schools, and that under the provisions of this act a superintendent of schools has been employed for one year, a warrant shall be drawn upon the treasurer of the Commonwealth for the payment of one thousand two hundred and fifty dollars, seven hundred and fifty dollars of which amount shall be paid for the salary of such superintendent, and the remaining five hundred dollars shall be apportioned and distributed on the basis of the amount appropriated and expended for a superintendent in the towns forming such district for the year next preceding, which amount shall be paid for the salaries of teachers employed in the public schools within such district.

4. A sum not exceeding forty-five thousand dollars shall be annually appropriated to carry out the provisions of this act.

5. The provisions of section forty-three of chapter forty-four of the Public Statutes, respecting the service of school committees without pay in towns wherein a superintendent is appointed, shall not apply to towns uniting in the employment of a superintendent under the provisions of this act.

6. This act shall take effect upon its passage. [Approved April 15, 1893.

The following lists give the names of the superintendents for 1893, with their locations :—

Counties and Towns Employing School Superintendents throughout the State for the Year 1893.

BY COUNTIES.	Superintendent.	Residence.
BARNSTABLE.		
Barnstable,	Samuel W. Hallett,	Hyannis.
Bourne,	Howard S. Freeman,	Sandwich.
Dennis,	W. E. Chaffin,	South Dennis.
Eastham,	Clarence W. Fearing,	Provincetown.
Falmouth,	F. Arthur Walker,	Falmouth.
Harwich,	Clarence W. Fearing,	Provincetown.

Counties and Towns Employing School Superintendents, etc. — Con.

BY COUNTIES.	Superintendent.	Residence.
BARNSTABLE—Concluded.		
Mashpee,	Howard S. Freeman,	Sandwich.
Orleans,	Hiram Myers,	Orleans.
Provincetown,	Clarence W. Fearing,	Provincetown.
Sandwich,	Howard S. Freeman,	Sandwich.
Wellfleet,	Clarence W. Fearing,	Provincetown.
Yarmouth,	W. E. Chaffin,	South Dennis.
BERKSHIRE.		
Adams,	W. P. Beckwith,	Adams.
Becket,	Louis A. Pratt,	Chester.
Cheshire,	Earl Ingalls,	Cheshire.
Dalton,	Earl Ingalls,	Cheshire.
Egremont,	William W. Abbott,	Sheffield.
Lanesborough,	Earl Ingalls,	Cheshire.
New Marlborough,	William W. Abbott,	Sheffield.
North Adams,	Mrs. Julia M. Dewey,	North Adams.
Pittsfield,	A. M. Edwards,	Pittsfield.
Richmond,	William W. Abbott,	Sheffield.
Sheffield,	William W. Abbott,	Sheffield.
Stockbridge,	H. P. Gulliver,	Stockbridge.
Washington,	Louis A. Pratt,	Chester.
West Stockbridge,	William W. Abbott,	Sheffield.
BRISTOL.		
Attleborough,	J. O. Tiffany,	Attleborough.
Dighton,	Joseph E. Sears,	Dighton.
Easton,	Edward B. Maglathlin,	North Easton.
Fairhaven,	Miss Etta L. Chapman,	Fairhaven.
Fall River,	William Connell,	Fall River.
Mansfield,	Edward P. Fitts,	Mansfield.
New Bedford,	William E. Hatch,	New Bedford.
North Attleborough,	W. E. Hobbs,	North Attleborough.
Raynham,	Roscoe D. McKeen,	East Bridgewater.
Swansea,	E. M. Thurston,	Swansea.
Taunton,	C. F. Boyden,	Taunton.
ESSEX.		
Andover,	W. A. Baldwin,	Andover.
Beverly,	A. L. Safford,	Beverly.
Boxford,	F. J. Stevens,	Boxford.
Gloucester,	Freeman Putney,	Gloucester.
Haverhill,	Albert L. Bartlett,	Haverhill.
Lawrence,	William C. Bates,	Lawrence.
Lynn,	O. B. Bruce,	Lynn.
Manchester,	John B. Gifford,	Marblehead.
Marblehead,	John B. Gifford,	Marblehead.
Methuen,	G. E. Chickering,	Methuen.
Newburyport,	William P. Lunt,	Newburyport.
Rockport,	Miss M. A. Wood,	Rockport.
Salem,	William A. Mowry,	Salem.
FRANKLIN.		
Buckland,	C. P. Hall,	Shelburne Falls.
Colrain,	C. P. Hall,	Shelburne Falls.
Conway,	E. W. Goodhue,	Williamsburg.
Erving,	Miss Lizzie A. Mason,	Orange.
Greenfield,	D. P. Dame,	Greenfield.
Orange,	Miss Lizzie A. Mason,	Orange.
Shelburne,	C. P. Hall,	Shelburne Falls.
Sunderland,	E. W. Goodhue,	Williamsburg.
Warwick,	Miss R. Cook,	Warwick.
Wendell,	Miss Lizzie A. Mason,	Orange.
Whately,	E. W. Goodhue,	Williamsburg.

Counties and Towns Employing School Superintendents, etc. — Con.

BY COUNTIES.	Superintendent.	Residence.
HAMPDEN.		
Agawam,	U. G. Wheeler,	Mittineague.
Brimfield,	Miss Clara A. Wood,	Monson.
Chester,	Louis A. Pratt,	Chester.
Chicopee,	R. Hamilton Perkins,	Chicopee.
Granville,	U. G. Wheeler,	Mittineague.
Hampden,	Miss Mary L. Poland,	Wilbraham.
Holyoke,	Edwin L. Kirtland,	Holyoke.
Longmeadow,	Miss Mary L. Poland,	Wilbraham.
Ludlow,	Miss Mary L. Poland,	Wilbraham.
Monson,	Miss Clara A. Wood,	Monson.
Palmer,	W. H. Small,	Palmer.
Southwick,	U. G. Wheeler,	Mittineague.
Springfield,	Thos. M. Balliet,	Springfield.
Wales,	C. A. Brodeur,	Warren.
Westfield,	G. H. Danforth,	Westfield.
West Springfield,	C. E. Stevens,	West Springfield.
Wilbraham,	Miss Mary L. Poland,	Wilbraham.
HAMPSHIRE.		
Amherst,	William D. Parkinson,	Amherst.
Easthampton,	B. C. Day,	Easthampton.
Middlefield,	Louis A. Pratt,	Chester.
Northampton,	Alvin F. Pease,	Northampton.
Pelham,	Chas. Humphrey,	Pelham.
Prescott,	Frank T. Wood,	Prescott.
Southampton,	B. C. Day,	Easthampton.
South Hadley,	Edward H. McLachlin,	South Hadley Falls.
Westhampton,	B. C. Day,	Easthampton.
Williamsburg,	E. W. Goodhue,	Williamsburg.
MIDDLESEX.		
Acton,	Edward Dixon,	West Brookfield.
Arlington,	I. Freeman Hall,	Arlington.
Ashby,	J. S. Cooley,	Townsend.
Ashland,	Alvan R. Lewis,	Ashland.
Ayer,	Edward P. Barker,	Ayer.
Bedford,	L. T. McKenney,	Bedford.
Belmont,	I. Freeman Hall,	Arlington.
Billerica,	L. T. McKenney,	Bedford.
Burlington,	L. T. McKenney,	Bedford.
Cambridge,	Francis Cogswell,	Cambridge.
Carlisle,	L. T. McKenney,	Bedford.
Chelmsford,	George J. Snow,	North Chelmsford.
Concord,	William L. Eaton,	Concord.
Dracut,	Junius C. Knowlton,	Tewksbury.
Everett,	Randall J. Condon,	Everett.
Frammingham,	O. W. Collins,	South Frammingham.
Holliston,	Fred C. Tenney,	Holliston.
Hopkinton,	Alvan R. Lewis,	Ashland.
Lexington,	Mark S. W. Jefferson,	Lexington.
Lincoln,	L. T. McKenney,	Bedford.
Littleton,	Edmund P. Barker,	Ayer.
Lowell,	Arthur K. Whitcomb,	Lowell.
Malden,	Charles A. Daniels,	Malden.
Marlborough,	John E. Burke,	Marlborough.
Maynard,	Henry H. Williams,	Maynard.
Medford,	Ephraim Hunt,	Medford.
Melrose,	B. F. Robinson,	Melrose.
Natick,	Frank E. Parlin,	Natick.
Newton,	George I. Aldrich,	Newtonville.
North Reading,	Junius C. Knowlton,	Tewksbury.
Pepperell,	J. S. Cooley,	Townsend.
Reading,	Charles E. Hussey,	Wakefield.

Counties and Towns Employing School Superintendents, etc. — Con.

By Counties.	Superintendent.	Residence.
MIDDLESEX—Concluded.		
Shirley,	Mrs. Susan N. Barker,	Ayer.
Somerville,	Gordon A. Southworth,	Somerville.
Stow,	J. S. Moulton,	Westford.
Sudbury,	Edward J. Cox,	South Sudbury.
Tewksbury,	Junius C. Knowlton,	Tewksbury.
Townsend,	J. S. Cooley,	Townsend.
Tyngsborough,	Junius C. Knowlton,	Tewksbury.
Wakefield,	Chas. E. Husey,	Wakefield.
Waltham,	Henry Whittemore,	Waltham.
Watertown,	George R. Dwyer,	Watertown.
Westford,	Edmund P. Barker,	Ayer.
Wilmington,	L. T. McKenney,	Bedford.
Winchester,	Ephraim Hunt,	Medford.
Woburn,	Frank B. Richardson,	Woburn.
NORFOLK.		
Bellingham,	N. W. Sanborn,	Bellingham.
Braintree,	I. H. Horne,	Braintree.
Brookline,	Samuel T. Dutton,	Brookline.
Canton,	James S. Perkins,	Canton.
Cohasset,	Elmer L. Curtiss,	Hingham.
Dedham,	R. W. Hine,	Dedham.
Foxborough,	J. R. Potter,	Walpole.
Franklin,	E. D. Daniels,	Franklin.
Medway,	Fred C. Tenney,	Holliston.
Millis,	Fred C. Tenney,	Holliston.
Milton,	C. H. Morse,	Milton.
Needham,	Frank E. Parlin,	Natick.
Norfolk,	J. R. Potter,	Walpole.
Norwood,	Maurice J. O'Brien,	Norwood.
Quincy,	H. W. Lull,	Quincy.
Sharon,	E. P. Fitts,	Mansfield.
Stoughton,	E. P. Fitts,	Mansfield.
Walpole,	J. R. Potter,	Walpole.
Wellesley,	Marshall Perrin,	Wellesley.
Weymouth,	I. M. Norcross,	East Weymouth.
PLYMOUTH.		
Abington,	W. H. Sanderson,	Bridgewater.
Bridgewater,	W. H. Sanderson,	Bridgewater.
Brockton,	B. B. Russell,	Brockton.
Duxbury,	Edwin H. Watson,	Marshfield Hill.
East Bridgewater,	Roscoe D. McKeen,	East Bridgewater.
Halifax,	J. T. Thomas,	Halifax.
Hingham,	Elmer L. Curtiss,	Hingham.
Hull,	Elmer L. Curtiss,	Hingham.
Kingston,	Wendell H. Adams,	Kingston.
Marshfield,	Edwin H. Watson,	Marshfield Hill.
Middleborough,	Asher J. Jacoby,	Middleborough.
Plymouth,	Charles Burton,	Plymouth.
Plympton,	A. S. Sherman,	Plympton.
Rockland,	H. Allen Halstead,	Rockland.
Scituate,	Edwin H. Watson,	Marshfield Hill.
West Bridgewater,	Roscoe D. McKeen,	East Bridgewater.
SUFFOLK.		
Boston,	Edwin P. Seaver,	Boston.
Boston,	Ellis Peterson,	Boston.
Boston,	Robert C. Metcalf,	Boston.
Boston,	John Kneeland,	Boston.
Boston,	G. H. Conley,	Boston.
Boston,	Mrs. Louisa P. Hopkins,	Boston.
Boston,	George H. Martin,	Boston.

Counties and Towns Employing School Superintendents, etc. — Con.

By Counties.	Superintendent.	Residence.
SUFFOLK — Concluded.		
Chelsea,	Eben H. Davis,	Chelsea.
Revere,	Milton K. Putney,	Revere.
Winthrop,	Milton K. Putney,	Revere.
WORCESTER.		
Athol,	Miss Flora E. Kendall,	Athol.
Barre,	Mortimer H. Bowman,	Barre.
Berlin,	George A. Mirick,	Northborough.
Blackstone,	Josiah B. Davis,	Millville.
Bolton,	J. A. Pitman,	West Boylston.
Boylston,	J. A. Pitman,	West Boylston.
Brookfield,	E. W. Howe,	Brookfield.
Clinton,	Charles L. Hunt,	Clinton.
Douglas,	W. W. Brown,	Douglas.
Dudley,	C. S. Lyman,	Oxford.
Fitchburg,	Joseph G. Edgerly,	Fitchburg.
Gardner,	Louis P. Nash,	Gardner.
Grafton,	Stanley H. Holmes,	Grafton.
Hardwick,	Mortimer H. Bowman,	Barre.
Harvard,	J. A. Pitman,	West Boylston.
Holden,	Charles A. Merrill,	Holden.
Hubbardston,	E. J. Edmands,	Baldwinville.
Leicester,	Charles A. Merrill,	Holden.
Leominster,	J. G. Thompson,	Leominster.
Lunenburg,	David P. Locke,	Winchendon.
Mendon,	Miss N. C. George,	Mendon.
Millford,	S. F. Blodgett,	Millford.
Millbury,	C. S. Lyman,	Oxford.
Northborough,	George A. Mirick,	Northborough.
Northbridge,	S. A. Melcher,	Whitinsville.
North Brookfield,	E. W. Howe,	Brookfield.
Oxford,	Charles S. Lyman,	Oxford.
Petersham,	Mortimer H. Bowman,	Barre.
Phillipston,	E. J. Edmands,	Baldwinville.
Princeton,	George H. Knowlton,	Westminster.
Royalston,	E. J. Edmands,	Baldwinville.
Shrewsbury,	George A. Mirick,	Northborough.
Southborough,	George A. Mirick,	Northborough.
Southbridge,	John T. Clarke,	Southbridge.
Spencer,	Wyman C. Fickett,	Spencer.
Sterling,	George H. Knowlton,	Westminster.
Sturbridge,	Edward Dixon,	West Brookfield.
Templeton,	E. J. Edmands,	Baldwinville.
Upton,	Stanley H. Holmes,	Grafton.
Uxbridge,	Charles H. Bates,	Uxbridge.
Warren,	C. A. Brodeur,	Warren.
Webster,	J. I. Buck,	Webster.
Westborough,	T. W. White,	Westborough.
West Boylston,	J. A. Pitman,	West Boylston.
West Brookfield,	Edward Dixon,	West Brookfield.
Westminster,	George H. Knowlton,	Westminster.
Winchendon,	David P. Locke,	Winchendon.
Worcester,	Albert P. Marble,	Worcester.

List of Superintendents for 1893, alphabetically arranged, with their Superintendencies.

Superintendent.	Residence.	Superintendency.
Abbott, William W., .	Sheffield, . . .	Sheffield, Egremont, New Marlborough, Richmond, W. Stockbridge.
Adams, Wendell H., .	Kingston, . . .	Kingston.
Aldrich, George I., .	Newtonville, . . .	Newton.
Baldwin, W. A., . .	Andover, . . .	Andover.
Balliet, Thomas M., .	Springfield, . . .	Springfield.
Barker, Edmund P., .	Ayer, . . .	Ayer, Littleton, Westford.
Barker, Mrs. Susan M.,	Ayer, . . .	Shirley.
Bartlett, Albert L., .	Haverhill, . . .	Haverhill.
Bates, William C., .	Lawrence, . . .	Lawrence.
Bates, Charles H., .	Uxbridge, . . .	Uxbridge.
Beckwith, Walter P., .	Adams, . . .	Adams.
Blodgett, S. F., . .	Milford, . . .	Milford.
Bowman, Mortimer H.,	Barre, . . .	Barre, Hardwick, Petersham.
Boyden, C. F., . . .	Taunton, . . .	Taunton.
Brodeur, C. A., . . .	Warren, . . .	Warren, Wales.
Brown, W. W., . . .	Douglas, . . .	Douglas.
Bruce, O. B., . . .	Lynn, . . .	Lynn.
Buck, J. I., . . .	Webster, . . .	Webster.
Burke, John E., . .	Marlborough, . . .	Marlborough.
Burton, Charles, . .	Plymouth, . . .	Plymouth.
Chaffin, W. E., . . .	Dennis (South), .	Dennis, Yarmouth.
Chapman, Miss Etta L.,	Fairhaven, . . .	Fairhaven.
Chickering, G. E., .	Methuen, . . .	Methuen.
Clarke, John T., . .	Southbridge, . . .	Southbridge.
Cogswell, Francis, .	Cambridge, . . .	Cambridge.
Collins, O. W., . . .	South Framingham, .	Framingham.
Condon, Randall J., .	Everett, . . .	Everett.
Conley, George H., .	Boston, . . .	Boston.
Connell, William, . .	Fall River, . . .	Fall River.
Cooley, J. S., . . .	Townsend, . . .	Townsend, Ashby, Pepperell.
Cox, Edward J., . .	South Sudbury, . .	Sudbury.
Curtiss, Elmer L., .	Hingham, . . .	Hingham, Cohasset, Hull.
Dame, D. P., . . .	Greenfield, . . .	Greenfield.
Danforth, George H.,	Westfield, . . .	Westfield.
Daniels, Charles A., .	Malden, . . .	Malden.
Daniels, E. D., . . .	Franklin, . . .	Franklin.
Davis, Eben H., . . .	Chelsea, . . .	Chelsea.
Davis, Josiah B., . .	Millville, . . .	Blackstone.
Day, B. C., . . .	Easthampton, . . .	Easthampton, Southampton, Westhampton.
Dewey, Mrs. Julia M.,	North Adams, . . .	North Adams.
Dixon, Edward, . . .	West Brookfield, .	West Brookfield, Acton, Sturbridge.
Dutton, Samuel T., .	Brookline, . . .	Brookline.
Dwellely, George R., .	Watertown, . . .	Watertown.
Eaton, William L., . .	Concord, . . .	Concord.
Edgerly, Joseph G., .	Fitchburg, . . .	Fitchburg.
Edmonds, E. Jasper, .	Baldwinville, . . .	Hubbardston, Phillipston, Royalston, Templeton.
Edwards, A. M., . . .	Pittsfield, . . .	Pittsfield.
Fearing, Clarence W.,	Provincetown, . . .	Eastham, Harwich, Provincetown, Wellfleet.
Fickett, Wyman C., .	Spencer, . . .	Spencer.
Fitts, Edward P., . .	Mansfield, . . .	Mansfield, Sharon, Stoughton.
Freeman, Howard S., .	Sandwich, . . .	Sandwich, Bourne, Mashpee.
George, Miss N. C., .	Mendon, . . .	Mendon.
Gifford, John B., . .	Marblehead, . . .	Marblehead, Manchester.
Goodhue, E. W., . . .	Williamsburg, . . .	Williamsburg, Conway, Sunderland, Whately.
Gulliver, H. P., . . .	Stockbridge, . . .	Stockbridge.
Hall, C. P., . . .	Shelburne Falls, .	Shelburne, Colrain, Buckland.

List of Superintendents, etc. — Continued.

Superintendent.	Residence.	Superintendency.
Hall, Isaac Freeman, .	Arlington, . . .	Arlington, Belmont.
Hallett, Samuel W., .	Hyannis, . . .	Barnstable.
Halstead, H. Allen, .	Rockland, . . .	Rockland.
Hatch, William E., .	New Bedford, . . .	New Bedford.
Hine, R. W., . . .	Dedham, . . .	Dedham.
Hobbs, W. E., . . .	North Attleborough, . . .	North Attleborough.
Holmes, Stanley H., .	Grafton, . . .	Grafton, Upton.
Hopkins, Mrs. Louisa P.,	Boston, . . .	Boston.
Horne, I. H., . . .	Braintree, . . .	Braintree.
Howe, E. W., . . .	Brookfield, . . .	Brookfield, North Brookfield.
Humphrey, Charles, .	Pelham, . . .	Pelham.
Hunt, Charles L., . .	Clinton, . . .	Clinton.
Hunt, Ephraim, . . .	Medford, . . .	Medford, Winchester.
Hussey, Charles E., .	Wakefield, . . .	Wakefield, Reading.
Ingalls, Earl, . . .	Cheshire, . . .	Dalton, Cheshire, Lanesborough.
Jacoby, Asher J., . .	Middleborough, . . .	Middleborough.
Jefferson, Mark S. W.,	Lexington, . . .	Lexington.
Kendall, Miss Flora E.,	Athol, . . .	Athol.
Kirtland, Edwin L., .	Holyoke, . . .	Holyoke.
Kneeland, John, . . .	Boston, . . .	Boston.
Knowlton, George H., .	Westminster, . . .	Westminster, Princeton, Sterling.
Knowlton, Junius C., .	Tewksbury, . . .	Tewksbury, Dracut, North Reading, Tyngsborough.
Lewis, Alvan R., . . .	Ashland, . . .	Ashland, Hopkinton.
Locke, David P., . . .	Winchendon, . . .	Winchendon, Lunenburg.
Lull, H. W., . . .	Quincy, . . .	Quincy.
Lunt, William P., . .	Newburyport, . . .	Newburyport.
Lyman, Charles S., . .	Oxford, . . .	Oxford, Dudley, Millbury.
Maglathlin, Edward B.,	North Easton, . . .	Easton.
Marble, Albert P., . .	Worcester, . . .	Worcester.
Martin, George H., . .	Boston, . . .	Boston.
Mason, Miss Lizzie A.,	Orange, . . .	Orange, Erving, Wendell.
McKeen, Roscoe D., . .	East Bridgewater, . .	East Bridgewater, West Bridgewater, Raynham.
McKenney, Louis T., .	Bedford, . . .	Bedford, Billerica, Burlington, Carlisle, Lincoln, Wilmington.
Melcher, S. A., . . .	Whitinsville, . . .	Northbridge.
Merrill, Charles A., .	Holden, . . .	Holden, Leicester.
Metcalf, Robert C., . .	Boston, . . .	Boston.
Mirick, George A., . .	Northborough, . . .	Northborough, Berlin, Shrewsbury, Southborough.
Morss, C. H., . . .	Milton, . . .	Milton.
Moulton, J. S., . . .	Stow, . . .	Stow.
Mowry, William A., . .	Salem, . . .	Salem.
Myers, Hiram, . . .	Orleans, . . .	Orleans.
Nash, Louis P., . . .	Gardner, . . .	Gardner.
Norcross, I. M., . . .	East Weymouth, . . .	Weymouth.
O'Brien, Maurice J., .	Norwood, . . .	Norwood.
Parkinson, William D.,	Amherst, . . .	Amherst.
Parlin, Frank E., . . .	Natick, . . .	Natick, Needham.
Pease, Alvin F., . . .	Northampton, . . .	Northampton.
Perkins, James S., . .	Canton, . . .	Canton.
Perkins, R. Hamilton, .	Chicopee, . . .	Chicopee.
Perrin, Marshall, . . .	Wellesley, . . .	Wellesley.
Peterson, Ellis, . . .	Boston, . . .	Boston.
Pitman, J. A., . . .	West Boylston, . . .	West Boylston, Bolton, Boylston, Harvard.
Poland, Miss Mary L., .	Wilbraham, . . .	Wilbraham, Hampden, Longmeadow, Ludlow.
Potter, J. R., . . .	Walpole, . . .	Walpole, Fomborough, Norfolk.
Pratt, Louis A., . . .	Chester, . . .	Chester, Becket, Middlefield, Washington.
Proctor, Mrs. J. E., . .	Warwick, . . .	Warwick.
Putney, Freeman, . . .	Gloucester, . . .	Gloucester.

List of Superintendents, etc. — Concluded.

Superintendent.	Residence.	Superintendency.
Putney, Milton K., . . .	Revere, . . .	Revere, Winthrop.
Richardson, Frank B., . .	Woburn, . . .	Woburn.
Robinson, B. F., . . .	Melrose, . . .	Melrose.
Russell, B. B., . . .	Brockton, . . .	Brockton.
Safford, A. L., . . .	Beverly, . . .	Beverly.
Sanborn, N. W., . . .	Bellingham, . . .	Bellingham.
Sanderson, W. H., . . .	Bridgewater, . . .	Bridgewater, Abington.
Sears, Joseph E., . . .	Dighton, . . .	Dighton.
Seaver, Edwin P., . . .	Boston, . . .	Boston.
Sherman, A. S., . . .	Plympton, . . .	Plympton.
Small, W. H., . . .	Palmer, . . .	Palmer.
Snow, George J., . . .	Chelmsford, . . .	Chelmsford.
Stevens, C. E., . . .	West Springfield, . . .	West Springfield.
Stevens, F. J., . . .	Boxford, . . .	Boxford.
Southworth, Gordon A., . .	Somerville, . . .	Somerville.
Tenney, Fred C., . . .	Holliston, . . .	Holliston, Medway, Millis.
Thomas, J. T., . . .	Halifax, . . .	Halifax.
Thompson, John G., . . .	Leominster, . . .	Leominster.
Thurston, E. M., . . .	Swansea, . . .	Swansea.
Tiffany, J. O., . . .	Attleborough, . . .	Attleborough.
Walker, F. Arthur, . . .	Falmouth, . . .	Falmouth.
Watson, Edwin H., . . .	Marshfield Hill, . . .	Duxbury, Marshfield, Scituate.
Wheeler, U. G., . . .	Mittineague, . . .	Agawam, Granville, Southwick.
Whitcomb, Arthur K., . . .	Lowell, . . .	Lowell.
White, T. W., . . .	Westborough, . . .	Westborough.
Whittemore, Henry, . . .	Waltham, . . .	Waltham.
Williams, Henry H., . . .	Maynard, . . .	Maynard.
Wood, Miss Clara A., . . .	Monson, . . .	Monson, Brimfield.
Wood, Frank T., . . .	Prescott, . . .	Prescott.
Wood, Miss M. A., . . .	Rockport, . . .	Rockport.

Normal Schools.

	STATISTICS FOR THE YEAR 1892-93.	
	Number of Students.	Number of Graduates.
Bridgewater,	272	95
Framingham,	147	29
Salem,	201	57
Westfield,	155	27
Worcester,	187	37
Normal Art School,	228	21
	1,190	266

EDUCATIONAL PROGRESS.

Within the last seventeen years the old school district system has been abolished and the town system established in its place ; free text-books and supplies have been provided for all the

children who attend the public schools; a law providing aid for the small towns to enable them to supply themselves with skilled school superintendence has been enacted; parental schools, for truant children have been established for nearly every county in the State; four new normal-school houses, at a cost of \$150,000 each, have been erected, and money for the fifth has already been appropriated; the normal schools have been reorganized, and model schools have been incorporated into their means of professional instruction; the State teachers' institutes have been reorganized with special reference to illustrating the principles and method of instruction and advanced ideas in new topics of study; the institutes have been increased in number until this year twenty-nine have been held, with an attendance of over twenty-eight hundred teachers; school committee and school superintendent institutes, a new institution, have been held in sixteen districts of the State, having for their objects a discussion of the duties of school committees and the authority that should be delegated by them to the superintendents, their agents; the country towns have been led to unite their small schools into larger ones, thus greatly increasing their efficiency and diminishing the cost of their support; the number of agents of the Board of Education has been increased from two to six; a State agent with an assistant for the introduction and supervision of industrial drawing in the schools has been appointed; the State school fund has been increased by over one million and a half of dollars, and that part of the income distributed to the towns has been withdrawn from the larger towns and limited to towns whose taxable property does not exceed three millions of dollars; a course of studies for the elementary schools has been constructed and distributed to the schools of the State that is in harmony with the most approved ideas on elementary instruction; the tenure of office of public school teachers has been secured; seventeen annual reports have been written that were designed to give a full account of the condition of the public schools, to illustrate as far as possible the principles and methods of public instruction, and to encourage the public school teachers of the Commonwealth to a thoughtful study of their work, that the best educational results may be produced in training the children considering as ends in themselves or as citizens of the State.

Our public educational institutions are still imperfect, and they always will be. The conditions under which they must be organized and their affairs administered present many problems not easily solved. It is, however, the concurrent opinion of those best able to judge that relatively Massachusetts, in the organization of her system of public schools, in her methods of public instruction, and in the generous and enthusiastic school spirit that now everywhere prevails, still holds her high place as a successful educator of the people. This place she will continue to occupy as long as those in authority are wise enough to allow educators to contrive and apply the means of public education, encouraged by the feeling of safety and appreciation which an intelligent confidence and sympathy have a tendency to produce, and without which no good permanent results will ever be accomplished.

JOHN W. DICKINSON,
Secretary, Board of Education.

Dec. 30, 1893.

FINANCIAL STATEMENT.

FINANCIAL STATEMENT OF THE BOARD OF EDUCATION.

Dr.

APPROPRIATION FOR SUPPORT OF NORMAL SCHOOLS.

Cr.

1893.		1893.	Appropriation, chapter 43, Acts of 1893,	Appropriation by chapter 929, Acts of 1893,
1893.	Bridgewater Normal School :—			
	Salary of principal,	\$3,000 00		\$106,274 00
	Salaries of assistants,	15,136 68		
	Janitor,	635 00		
	Repairs,	1,460 89		
	Watchman,	600 00		
	Fuel,	1,209 78		
	Printing,	163 10		
	Advertising,	125 50		
	Apparatus,	166 02		
	Model school,	2,817 26		
	Clerk,	600 00		
	Engineer,	700 00		
	Boarding hall, repairs and furniture,	3,264 15		
	Laboratory,	81 55		
	Water,	17 79		
	Books,	1,066 28	\$30,644 00	
	Framingham Normal School :—			
	Salary of principal,	\$3,000 00		
	Salaries of assistants,	11,492 04		
	Janitor,	840 00		
	Repairs,	1,713 10		
	Fuel,	1,977 73		
	Printing,	79 01		
	Apparatus,	138 26		
	Drawing models,	105 06		
	Books,	194 15		

Advertising,	131 38		
Light,	113 74		
Water,	21 42		
Stationery,	24 60		
Watchman,	811 00		
Telephone,	90 65		
Clerk,	700 00		
Boarding hall expenses, . .	387 22		
		\$21,159 36	
Salem Normal School: —			
Salary of principal, . . .	\$3,000 00		
Salaries of assistants, . .	10,253 72		
Janitor,	600 00		
Repairs,	304 64		
Fuel,	495 00		
Stationery,	142 27		
Books,	273 37		
Advertising,	16 98		
Drawing models,	97 45		
Printing,	56 00		
Water,	50 00		
Gas,	42 08		
Apparatus,	177 37		
Lectures,	40 00		
Ice,	16 80		
Architect,	140 00		
		\$15,705 68	
Westfield Normal School: —			
Salary of principal, . . .	\$3,000 00		
Salaries of assistants, . .	11,666 53		
		\$14,666 53	
Amounts carried forward, .		\$67,509 04	
			Amount carried forward, .
			\$106,774 00

FINANCIAL STATEMENT OF THE BOARD OF EDUCATION — CONTINUED.
APPROPRIATION FOR SUPPORT OF NORMAL SCHOOLS — *Concluded.*

Dr.	1892.		1893.	Amount brought forward,	Cr.
		<i>Amounts brought forward, . .</i>	\$14,666 53		\$106,774 00
		Westfield Normal School. — Con.			
		Janitor,	800 02		
		Repairs,	1,712 21		
		Watchman,	446 32		
		Stationery,	174 56		
		Apparatus,	422 80		
		Fuel,	680 64		
		Advertising,	85 51		
		Gas,	6 80		
		Binding,	16 40		
		Printing,	74 00		
		Water,	200 00		
		Books,	883 64		
		Boarding hall,	1,768 49		
		Type-writer,	100 00		
		Lectures,	20 00		
		Music,	16 00		
				\$22,073 92	
		Worcester Normal School: —			
		Salary of principal,	\$3,000 00		
		Salaries of assistants,	9,113 28		
		Janitor,	600 00		
		Repairs,	1,585 30		
		Fuel,	829 99		
		Stationery,	459 95		
		Binding,	2 50		
		Printing,	428 93		
		Advertising,	51 25		

Ice,	.	.	.	.	36 65
Telephone,	.	.	.	.	48 17
Water,	.	.	.	.	66 70
Apparatus,	.	.	.	.	115 70
Books,	.	.	.	.	547 28
Piano,	.	.	.	.	308 00
Music,	.	.	.	.	61 80
					<u>\$17,198 50</u>
					<u>\$106,781 46</u>

APPROPRIATION FOR NORMAL ART SCHOOL.

1993.		1993.	Appropriated by chapter 43, Acts of 1893,	\$18,000 00
Salary of principal,	\$3,000 00			
Salaries of assistants,	12,035 20			
Janitor,	1,100 04			
Repairs,	49 76			
Fuel,	1,013 85			
Electric lights,	75 23			
Gas,	50 22			
Water,	49 00			
		\$17,973 30		
		26 70		
		<u>\$18,000 00</u>		
Dec. 31,	Balance unexpended, . . . . .	.		\$18,000 00

FINANCIAL STATEMENT OF THE BOARD OF EDUCATION — CONTINUED.

Dr.	APPROPRIATION FOR AID TO NORMAL PUPILS.		Cr.
1893.	1893.	Appropriated by chapter 43, Acts of 1893,	
June 16,	Amount paid : —		\$4,000 00
	Bridgewater school,	\$361 29	
	Framingham school,	193 55	
	Salem school,	387 09	
	Westfield school,	929 04	
	Worcester school,	129 03	
		<u>\$2,000 00</u>	
	Balance unexpended,	<u>\$2,000 00</u>	
Dec 31,		<u>\$4,000 00</u>	<u>\$4,000 00</u>

APPROPRIATION FOR AGENTS OF THE BOARD.

1893.	1893.	Appropriated by chapter 43, Acts of 1893,	
June 16,	George A. Walton, salary,	\$2,500 00	\$19,650 00
	George A. Walton, expenses,	407 25	
	John T. Prince, salary,	2,500 00	
	John T. Prince, expenses,	279 01	
	Andrew W. Edson, salary,	2,500 00	
	Andrew W. Edson, expenses,	461 82	
	G. T. Fletcher, salary,	2,500 00	
	G. T. Fletcher, expenses,	527 34	
	Henry T. Bailey, salary,	2,500 00	
	Henry T. Bailey, expenses,	465 93	
	James W. MacDonald, salary,	2,500 00	
	James W. MacDonald, expenses,	313 96	
	L. Walter Sargent, salary,	1,500 00	
	L. Walter Sargent, expenses,	426 80	
		<u>\$19,371 61</u>	
	Balance unexpended,	<u>278 39</u>	
Dec 31,		<u>\$19,650 00</u>	<u>\$19,650 00</u>

APPROPRIATION FOR 'TEACHERS' INSTITUTES.

1893.		1893.	Appropriated by chapter 43, Acts of 1893,	\$2,000 00
Expended for instructors and expenses of institutes at Amesbury, Athol, Belchertown, Cummings, Danvers, Fairhaven, Hamilton, Harwich, Holden, Holliston, Holyoke, Lawrence, Leominster, Lowell, Marshfield, Melrose, Millbury, North Adams, Northampton, Orange, Pittsfield, Russell, Stoughton, Sudbury, Swansea, Wellesley, West Springfield, Winchendon, Wrentham,	\$1,997 42 2 58			
Dec. 31,				\$2,000 00
				\$2,000 00

APPROPRIATION FOR INCIDENTAL EXPENSES.

1893.		1893.	Appropriated by chapter 43, Acts of 1893,	\$1,800 00
School registers and printing,	\$435 11			
Clerical expenses and messenger,	784 40			
Stationery and postage,	302 08			
Type-writer and expressage,	238 62			
Balance unexpended, . . . . .	. . . . .	\$1,760 21 89 79		
Dec. 31,		\$1,800 00		\$1,800 00

FINANCIAL STATEMENT OF THE BOARD OF EDUCATION — CONCLUDED.

DR.	APPROPRIATION FOR TRAVELLING EXPENSES OF MEMBERS OF THE BOARD.	CR.
1893.	Amounts paid as follows: —	
May 24,	E. H. Capen,	\$12 75
June 24,	A. P. Stone,	72 42
	G. I. Aldrich,	38 20
July 10,	Kate Gannett Wells,	48 70
Oct. 26,	A. A. Miner,	2 80
Dec. 18,	Kate Gannett Wells,	8 33
22,	E. B. Stoddard,	53 50
	M. B. Whitney,	75 52
23,	A. P. Stone,	64 61
28,	G. I. Aldrich,	29 40
30,	G. H. Conley,	11 35
		\$412 58
Dec. 31,	Balance unexpended,	187 42
		\$600 00

C. B. TILLINGHAST, Treasurer.

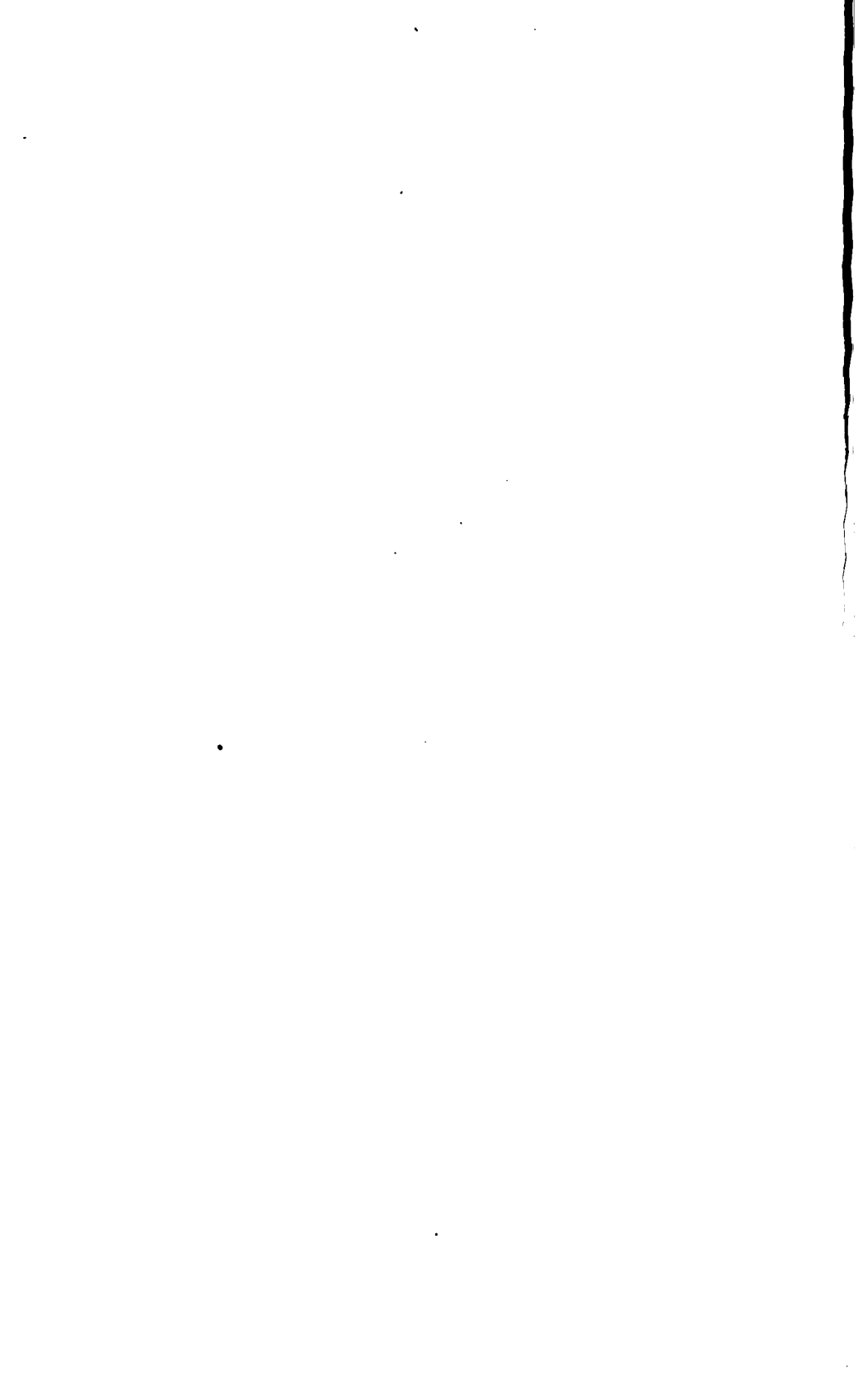
APPENDICES.

A.

REPORT OF GEORGE A. WALTON,

AGENT OF THE BOARD.

TEACHERS AND TEACHING.



REPORT.

To the Board of Education.

My time for the year now closing was spent in general as in recent years. The first three and the last two months were divided between work in the office of the secretary of the Board and visits to the towns, principally to those in Barnstable and Middlesex counties. A portion of this time, with the remaining months of the year, was given to school inspection, to addressing teachers, parents and citizens, to arranging for and conducting teachers' institutes and school committee and superintendent meetings, to giving instruction in these, and to attending the various other associations of teachers.

SCHOOL INSPECTION.

The inspection extended, as usual, to the means and causes which make good schools, as the buildings, their location, construction, arrangement and furnishings; the administration of the schools, including the sanitation, the management and instruction.

In the towns visited nothing is more noticeable than the good school spirit which prevails. What is written in the papers is read by the people; they form judgments and freely express their opinions concerning school management, and this they do with greater intelligence year by year. They are anxious to discover and secure for their children the best instruction and for the schools the most efficient supervision. They cheerfully acquiesce in changes in the course of studies and readily sanction expenditures for apparatus and other means calculated to improve the teaching.

Buildings. — The liberal expenditure in the past few years for the erection of new school buildings, and for permanent alterations and improvements in old ones, is perhaps the best evidence of the liberal spirit with which the schools are fostered.

The Legislature of 1888 enacted a law which enlarged the powers of the inspectors' department of the district police and increased the force itself. Since that time especially there has been an awakened interest in providing school buildings of the most approved patterns as regards convenience, sanitary arrangements and adaptation to school purposes. The money expended on new buildings in Middlesex County during the past three years was more than three-fold the expenditure for the three years previous to 1888, and the average was three-fold that for the ten years prior to 1888. The amount expended in this county during the past three years was \$1,242,546, against \$393,026 for the three years from 1886 to 1888, inclusive, and against an average of \$146,407 for the ten years from 1881 to 1890, inclusive.

The people seek for these buildings locations open to the sunlight, free from dampness and away from the neighborhood of disturbing influences. The architects are alert to meet the demand for safety in construction, and for proper sanitary provisions, as plumbing, lighting, heating and ventilation. It must be felt by all thoughtful persons that the inspection department of the district police has fully vindicated the wisdom of its enlarged powers, and that the law of 1888 has, through this department, exerted a most healthful educational influence both within and without the schools. Before they can be executed, all plans for new school-houses must, under the law, be submitted to the inspectors for their approval, and though an appeal which prevents the carrying out of their recommendations is in some instances made to local boards, most of the buildings recently erected are models of taste and convenience, while as abodes of children and youth all are a vast improvement over those erected prior to the advent of the inspectors. The defect most common seems to be in lighting, a defect not by any means general.

The following table shows some of the buildings that have been recently constructed or improved in the cities and towns of Middlesex County. The list may be useful for reference. It is not claimed to be absolutely accurate. Some of the details are as reported by local officials; some are from memoranda made at the time of my visits; others are from records and estimates of the inspectors of buildings.

School-houses of Recent Construction in Middlesex County.

TOWN AND SCHOOL.	Number of Rooms.	Material.	Cost.
Acton — West,	9 ¹	Wood.	\$4,400
Arlington — High School,	11	Brick.	70,000
Ashland — High School,	8	Wood.	12,000
Ayer — West,	4	Wood.	12,000
Bedford — Centre,	4	Wood.	13,000
Belmont — Centre Intermediate,	11	Brick.	17,000
Waverly,	2 ¹	Brick.	9,000
Billerica — Asa Pollard,	4	Wood.	9,000
Cambridge — Parker, Broadway,	6	Brick.	24,600 ^a
English High,	11	Brick.	238,000 ^a
Morse,	14 ^a	Brick.	80,000 ^a
Peabody,	6	Brick.	34,000 ^a
Putnam,	13 ^a	Brick.	68,300 ^a
Wellington,	13	Brick.	50,800 ^a
Concord — High School,	6	Brick.	18,000
Dracut — Collinsville,	4	Wood.	11,000
Parker,	4	Wood.	8,800
Everett — Beecham Street,	4	Wood.	12,500
Broadway,	9	Brick.	30,000
Devens,	9	Wood.	16,500
Glendale,	9 ¹	Wood.	17,000
High School,	13	Brick.	70,000
Locust Street,	9	Wood.	22,000
Framingham — High School,	1 ¹	Wood.	15,000
Hollis,	4	Wood.	16,000
Lokerville,	3	Wood.	—

¹ Alterations.^a With land.^a Hall additional.

School-houses of Recent Construction, etc. — Continued.

TOWN AND SCHOOL.	Number of Rooms.	Material.	Cost.
Hudson —			
Myrtle Avenue Grammar, . . .	4	Brick.	\$18,000
Lexington —			
Union (Centre),	8	Brick.	60,000
Lowell —			
Butler Annex,	4	Brick.	25,000 ¹
Cabot Street,	4	Brick.	23,415 ¹
Chelmsford,	8	Brick.	60,000 ¹
Cross Street,	4	Brick.	23,868
High School,	20 ²	Brick.	199,276
Highland,	4	Brick.	22,087
Moody,	12 ³	Brick.	81,734
Oakland,	4	Wood.	12,040
Training, ⁴	7	Wood.	29,383
Charles Street, ⁴	4	Wood.	20,105
Eliot, ⁴	4	Brick.	28,042
Malden —			
Ward 1, Belmont,	8	Brick.	33,120
Ward 6, Cherry Street,	6	Wood.	19,125
Ward 5, Faulkner,	12	Brick.	49,950
Ward 7, Franklin,	4	Wood.	12,966
Marlborough —			
Bolton Street,	2	—	3,000
Maynard —			
Union,	12 ³	Wood.	30,000
Medford —			
Hervey,	2	Wood.	13,000
High,	3 ³	Wood. ³	25,000
Washington,	6 ³	Brick.	65,000
Melrose —			
Gooch,	8	—	18,500
High,	— ³	Wood.	6,000
Highland, ⁴	4	Wood.	13,000
Mary A. Livermore,	4	Brick.	17,000
Upham Hill,	4	Wood.	10,000
Grove Street,	8 ³	Wood.	11,000
Newton —			
Claffin,	6	Brick.	32,000
Waban,	4	Wood.	16,000
Pepperell —			
Centre,	2	Wood.	—
East Pepperell,	4	Brick.	—

¹ Not finished.² Including hall and laboratories.³ Hall additional.⁴ Finished in 1889.⁵ Alterations.

School-houses of Recent Construction, etc. — Concluded.

TOWN AND SCHOOL.	Number of Rooms.	Material.	Cost.
Somerville —			
Beacon Street, ¹	—	—	—
Bingham,	8 ²	Brick.	\$23,270
Charles G. Pope,	12	Brick.	49,315
Glines (E. Somerville),	8	Brick.	39,026
Highland,	12	Brick.	47,000
Morse,	12	Brick.	55,000
O. S. Knapp,	8	Brick.	34,297
Stoneham —			
Centre Grammar,	6 ²	Wood.	5,000
Sudbury —			
Centre,	4	Wood.	8,627
Tewksbury —			
High School,	4 ²	Wood.	13,000
Tyngsborough —			
Centre	4	Wood.	5,000
Wakefield —			
Lincoln,	10	Brick.	58,000
Waltham —			
Roberts Station,	2	Wood.	10,000
Winchester —			
Gifford,	4	Wood.	10,000
Rumford,	4	Wood.	10,000
Woburn —			
Highland,	4	Wood.	14,000
Wyman,	4	Brick.	26,000

¹ Not built.² Alterations.³ Hall additional.

There have been built recently several commodious and well-appointed school-houses in Barnstable County, one in Provincetown, a four-room building of wood, costing \$14,239 ; another in Orleans, where all the schools of the town are gathered in one building, reconstructed and enlarged so as to give four school-rooms, with two recitation rooms, the whole expense for reconstruction being \$7,250 ; the building is of wood. A \$3,000 two-room building has been located in West Falmouth, and one of three rooms was last year built in the town of Mashpee, the cost \$2,837 ; these are both of wood.

Truant Schools. — The means for the restraint, discipline and instruction of truant children are now furnished by the establishment of county truant schools. A majority of the counties are now provided with them. There is a school located in Chelmsford, near Lowell, to which this class of children in Middlesex County will hereafter be committed. The building is of brick, and with the land cost about \$50,000; it is nearly ready for occupancy.

The county of Barnstable is still without the necessary accommodations for her truant children. A provision of law permits her to send truants to the school established at Walpole, in Norfolk County. There is room in the school, and more than three towns in Barnstable, the number required by law, have petitioned the county commissioners to assign this as their county truant school or make other provision; but the children are still wandering about the streets, without lawful occupation, and growing up in ignorance. The number is not large in any one town, but in the aggregate it is considerable, and is likely to increase if the indifference and inactivity of the county commissioners continue.

An obstacle in the way of the proper enforcement of the law is the tax it imposes upon the towns. The expense to the town of maintaining a child in a county truant school is \$2 per week. If this could be borne by the State or wholly by the county one motive for permitting the truant children to go without restraint would be removed. The local truant officers would doubtless, under these circumstances, evince less apathy when order-loving citizens make their appeals to have the children kept from lawlessness and from going to swell the criminal class.

The responsibility for neglecting to comply with the law and providing a place for truants after towns have petitioned rests entirely with the county commissioners; they have no option in the case. The responsibility for the arrest of truants, when such place exists, abides with the truant officers. The good order of society and the formation of habits of punctuality and fidelity in the children and youth, soon to take their places in society, depend largely upon the faithfulness of these officials in the discharge of their respective duties.

School Superintendents. — The laws which make provision for the employment of superintendents to aid the school com-

mittees in the supervision of the schools are deemed the most important school legislation enacted since that of 1841 which permanently established the normal schools as State institutions. The law of 1888 provided a means by which such agents could be secured to the small towns. The wisdom shown in devising this law and the liberality with which it was enacted, and by which its scope was subsequently extended, cannot be too highly commended.

The benefits anticipated to the small towns from the recent enactments are everywhere apparent. Teachers are more diligent in studying the true method of teaching and in inventing devices for school work. As a result the children experience greater delight in pursuing their studies and show an increased interest in all that pertains to the school. This is evident from observation in the schools, and is shown by the ratios of the total and average attendance, which have everywhere increased. Another result, and one far more significant, is the universal demand now made throughout the State for trained teachers.

The high esteem in which the recent enactment is held is shown in the extent of the application of the superintendent laws throughout the State. Under these laws twelve out of fifteen of the Barnstable County towns and forty-six out of fifty-four of the Middlesex towns are employing superintendents. These towns contain 87 per cent. of all the children attending the public schools in the county of Barnstable, 95.9 per cent. of those in Middlesex. The ratio for the entire State now reaches 88.7 per cent. Towns in Middlesex County first uniting during the present year to employ superintendents are Ashby, Reading, Townsend, Wakefield and Westford. Yarmouth, in Barnstable County, formed a union with Dennis, taking the place of Chatham.

The law of 1888 is somewhat restricted in its operation by reason of the difficulty of finding towns that can advantageously unite. Boxborough and Dunstable, for example, in Middlesex County, have voted to unite with other towns for the purpose of employing a superintendent, but to the present time they are unable to effect a union with any other towns. Aside from these two, there are in this county but two towns whose valuation permits them to avail themselves of the provisions of the law that are not under superintendents.

It is desirable that authority be given to some one to adjust districts so that provision may be made for this form of supervision for all towns. Possibly the law could be amended so as to allow proportionate aid to small towns which could unite with large towns employing superintendents under the earlier laws. This would afford relief in some instances.

Teaching and Teachers. — Personal observations covering a series of years justify the assertion that there is progress in school teaching; that this progress in some essential particulars is general and well-nigh universal; that in many instances the progress is fully equal to the progress in material interests. But it is no less true that in the schools as a whole there is a sad loss experienced from the want of knowledge of the principles of teaching and of skill in applying them, and this is but a repetition of a truth which has been again and again reported by the agents of the Board. This is not said in disparagement of the large number of excellent teachers who have acquired the requisite knowledge and skill while in the practice of teaching.

The introduction into the schools of superintendents, many of whom have had much experience and a large measure of success in teaching, has served to emphasize the need of a more competent teaching force. The conviction of this need has led to the establishment of schools and classes in many of the cities and large towns for training teachers.

It is a significant fact bearing upon the superintendent question and upon that under consideration that the number of teachers without experience admitted to the schools under superintendents is comparatively small, and becomes less as superintendents gain the confidence of committees. In Middlesex County, 52 towns, employing 2,212 teachers, have but 72 who during the year have entered the schools without previous experience; this is about $3\frac{1}{4}$ per cent. Owing to conditions over which superintendents have but little control, the percentage in Barnstable is considerably greater.

One superintendent, unable to secure competent teachers in his own locality, has introduced into his district during the year seven teachers from the State of Maine.

What has been done through the diligence and devotion of the superintendents in the schools and in teachers' meetings, and

especially through training schools, has shown to committees and parents the great gain it would be to have all teachers enter the schools with previous professional training, so that the conviction of the need of a supply of competent teachers is not confined to educational people. It has recently been expressed in petitions for additional normal schools, these coming from all parts of the State, one from each of the counties of Barnstable and Middlesex. Not less than ten cities and towns ask to be favored with the location, while many others in their vicinity unite in urging such school as a necessity for supplying their own schools with trained teachers. A recent hearing before the Board of Education on the question of establishing additional normal schools brought to the State House a gathering of representatives of the towns petitioning. These included the mayors of two leading cities, with the heads of all the civic departments, superintendents and school committees of cities and towns, the presidents of Boards of Trade and other citizens. The hearing was remarkable for the large numbers in attendance, but more so for the uniform and fervid claim made for professionally trained teachers. The time has arrived when such only will meet the popular demand.

Normal schools have been maintained as a part of our educational system for over fifty years; aside from the cost of the plant their annual cost exceeds \$100,000. The maintenance of normal schools for this long period of time and at this large public cost fully commits the State to the theory that teachers need professional training. And yet only about 31 per cent. of the teachers at present engaged in keeping the public schools are graduates of normal schools.

Having pursued for this long period of time the policy of educating her teachers, upon what principle is the State justified in permitting seven-tenths of the schools to be kept by teachers without training? If the few need this training, do not the many? Or, again, where is the justice of the State's bestowing upon three-tenths of the schools the benefits of an outlay for which all the citizens are taxed, and practically excluding the other seven-tenths of the schools from any direct participation in these benefits? Our compulsory law requiring school attendance is defended on the ground that the citizen who is taxed for educating the children will directly or

indirectly reap the benefit of the education provided ; hence he rightfully demands that the children attend the schools and there receive their education. Are not the cases parallel? Does not the State's right to supply at public expense a few schools with professionally trained teachers obligate her to supply them for all? And does it not follow that the provisions for educating the teachers of the State have fallen far behind the demand made by the policy which the State herself has for these years maintained? Is it not, indeed, incumbent upon her not only to provide a supply of trained teachers, but to insist that only those be employed who are first proved by previous training and experience to be qualified to teach?

At a recent meeting held in Boston, the superintendents of New England, impressed with the necessity for trained teachers, and realizing the inadequacy of the supply coming from the normal schools and of the training schools to give the required professional training, submitted a question upon which, as chairman of a committee, it devolved upon me to prepare the following report, which is here embodied as indicating how the means at hand may be made most efficient, also what additional means are required to provide trained teachers for all the schools : —

REPORT UPON THE QUESTION : HOW MAY CITIES AND TOWNS ESTABLISH A SYSTEM OF TRAINING SCHOOLS TO SUPPLEMENT THE WORK OF THE STATE NORMAL SCHOOLS?

It is not necessary to show that the normal schools need such supplementing ; this is assumed in the proposed question.

It is not possible to overestimate the good work doing by the normal schools. They faithfully instruct in the principles and method of teaching ; these they carefully apply to the several branches. Your committee believe the normal graduate enters upon his work with the greatest advantage as the result of his normal course ; in fact, that for any one to attempt to teach without previous knowledge of the principles of teaching presumes waste and loss to both teacher and taught. They believe the normal schools have made the conviction among educators quite universal that teaching without professional training is what quackery is to the profession of medicine. But continuing the illustration, they believe that to teach, the pedagogical student requires training analogous to what the medical student receives in the hospital, the laboratory and the dissecting

room. By this alone is he able to discover the truths he has been taught, and such discovery requires a much more prolonged practice than the normal schools have hitherto provided.

The schools now recognize the defect and are trying to remedy it, but to meet the demand for trained teachers which now exists they do not go far enough or fast enough.

Hence the establishment of training schools. The training schools are practice schools. They are not competent to give a professional outfit for teaching. They lack the extended pedagogical study and professional associations of the normal schools. In some instances they exist solely for the purpose of keeping raw recruits out of the ranks till they can learn to mark time.

The training schools multiply as superintendencies increase and get established under the very eaves of the normal schools themselves. They are a short cut to employment, and for immediate success in getting a school and in getting at work they are thought by many to have the advantage of the normal schools. There are twenty or more of them in New England and they have come to stay. Here, then, are two schools for qualifying teachers, both defective, and each strong where the other is weak. Hence the two are natural complements of each other.

That the training school may supplement the normal school the former must be made the practice school of the latter. The training schools which now exist should be joined with the normal schools and others should be established sufficient in number to afford to every normal student an opportunity for ample, independent practice under expert supervision before he receives a position as a professional teacher. That is, cities and towns should be induced to admit normal students to practice in schools organized to meet this special need.

The Wellington school in Cambridge, Mass., in essential respects meets the demand for a practice school and thus supplements the normal school. Some of the conditions of this training school are as follows : —

1. A normal school course or an equivalent is required for admission to the training class.
2. Nearly all the classes in the training school are put in charge of teachers in training and taught by them.
3. A nominal sum is paid to the trainers for services during the term of their practice, one year.
4. The school, which numbers 750 pupils, includes the several grades between the kindergarten and the high school.
5. The school is under the charge of a master, aided by four or more assistants. These teachers are supervisors; they have no special class-room, but are responsible for the work in all the grades.

The training school is not, however, directly tributary to any normal school course, nor subject to normal school supervision. It simply affords graduates of normal schools, while gaining experience, an opportunity to practice under conditions favorable to themselves and not detrimental, indeed advantageous, to the children and the city.

The New Britain, Conn., normal and training school, with its practice schools at South Manchester and Bristol, is an example of a more intimate relation between the State normal school and a supplementary training school.

1. This normal school has a membership, May, 1893, of 325.
 2. Definite courses of study are prescribed, but no limit of time is fixed for their completion. When completed the student receives a certificate to this effect; not until he has passed the State examination and proved by practice his ability to teach is he awarded a diploma.
 3. The entrance examinations are easy; the conditions for continuing to graduation are exacting. Out of an entering class of 170 in September, 1892, 30 had become discouraged and left before May following; others renewed their courage and repeated the course.
 4. Immediately connected with the normal school is a model and observation school which has an attendance of four or five hundred pupils of primary, grammar and high school grades, with a large kindergarten.
 5. The kindergarten and model school are conducted by skilled and experienced teachers. The principal of each is an expert in her department.
 6. For the first year of the normal school course the students are employed in reviewing their common school studies; during the first and second years, method in teaching is illustrated by the principal and the model school teachers, in the presence of the normal students; a discussion of the underlying principles follows.
 7. During the second year daily visits are made to the rooms of the model school; these, too, are followed by descriptions and discussions. The students also give trial lessons in presence of the principal and model teachers, using model classes, all exercises being subject to criticism.
 8. When the student shows tact and teaching ability he is allowed to assist in certain lines of work in the model school.
 9. All the normal teaching is illustrated by concrete examples with model school classes.
 10. With this preparation, selected students are put to independent teaching under skilled supervision.
- (1.) For the purpose, all the children of South Manchester, eighteen miles away, form a practice or supplementary training school.

Here there are about 900 pupils, comprising all grades, massed in one building.

(2.) The school is under the supervision of the principal of the normal school, assisted by the principal of this supplementary training school and five or six assistants, one of whom is a kindergartner, one the teacher of a model room, one a critic teacher, the others teachers of specialties.

(3.) All are selected or approved by the normal principal.

(4.) The school rooms have seats for from twenty to thirty pupils. Each is in charge of an advanced normal student, who, unless found incompetent, teaches and manages the class five months. For the service she receives no pay. The salaries of the supervising teachers are liberal and paid by the town or school district.

It would certainly not be difficult to form a plan which would make it an object for any city or town to constitute her schools, a portion or all of them, training schools to receive normally trained students for such supplementary practice.

The obstacle most difficult to overcome would doubtless be found in one of the motives for establishing the training schools, which is to get "home talent" to teaching without the time and expense necessary to attend a normal school. However unworthy this motive, and however detrimental the results to the schools, the obstacle can be removed only by an enlightened public sentiment which considers, demands and secures what is for the best good of the children.

Another objection, not so difficult to overcome, is "The parents do not want their children practiced upon." This is absurd when it comes from a city or town having a training school which receives students direct from its own high school. Compare the teaching acquirements of such with those of a class that has been two years training in a normal school, or compare these normal students with wholly untrained teachers that annually enter our schools in large numbers, — and for what else, pray, but to practice upon children?

It is not necessary to answer such objections; good practice schools rank among the best of schools. There is no valid objection on this score. The Wellington school is in every way the equal of other schools in Cambridge or elsewhere; equal in results and in popular favor. And this is a sample of many.

A recent visit by the writer to the South Manchester practice schools showed that the teaching by forty persons new to the children within two weeks was as satisfactory, to say the least, as one would find in any town of an equal number of schools under average good teachers. It only remains for all normal and training schools to effect a similar union to that of the New Britain normal school with its training schools to give the practice needed to supplement the State normal schools.

Aided by the concrete examples cited, your committee would briefly state some of the conditions for effecting such a union.

I. Regarding the Normal Schools.

1. A loose form of grading of the normal students should be allowed so that each individual could receive a diploma when, and only when, he had fully and satisfactorily completed the course of studies and shown by actual practice that he is capable of teaching and managing a school.

2. A high standard of qualifications for admission should be required, but more especially should the rule be observed for dropping unpromising students.

3. An essential adjunct of the normal school, within its own precincts and independent of the practice school, is a model and observation school consisting of all grades, including the kindergarten and high school, every grade and class being in charge of a skilled permanent teacher.

4. The model school is to be used by the teachers and students of the normal school for illustrative purposes; under favoring conditions the normal students to assist in it and have charge of classes.

5. The normal students should in their daily work use classes of the normal school as a practice school.

6. The principal of the normal school must have an abiding conviction of the need the students have for more abundant practice than the class exercises and an ordinary model school afford, and he must be willing to make all necessary sacrifices to secure the practice.

II. Conditions relating to the Training School.

1. The training school should receive only those who have been trained in normal schools, or have had an equivalent to this training.

2. The time of practice might be limited to a half school year; the practice should be limited to a single class. Trainers should serve without compensation.

3. The class under one trainer should not exceed twenty-five pupils. Of this he should have the full charge.

4. The training school should have an ample corps of permanent teachers, who should act as supervisors and be responsible for the whole school.

5. The practice work should be subject to supervision by the normal school principal, and tributary to the work of the normal school. The authority over the school would abide, as at present is the case with all town and city training schools, in the town officers and their agent, the superintendent. But by courtesy the normal principal should be allowed the largest liberty.

6. During the term they spend in practice the normal students should observe the normal school rules relating to retiring, rising, exercise, etc. Their practice work should be subject to criticism as at the normal school.

III. To attract the Towns to the System and render it effective, it may be necessary that the State make some Special Contribution to the Object.

1. By providing a supervisor to oversee and direct the practice of the trainers.

2. By transporting students in training to and from the training school where they practice, and providing board at a low rate, as at present is done at the Massachusetts normal schools.

3. And probably she would find it necessary to require all teachers to have a State certificate as a prerequisite to teaching. This would inevitably lead

4. To a demand for professional training for all teachers, which in its turn would necessitate

5. An increase of normal schools and of teachers' wages in towns where they are now low, for which the State might have to provide

6. By levying a State tax or by a liberal increase in school funds, to be distributed among this class of towns for the support of the schools, especially for paying teachers.

7. Something could be done in this way to arrest the sharp competition which is constantly subjecting the schools of the poorer towns to a change of teachers.

Thus around the question your committee has attempted to answer seem to revolve the most vital interests of our school system.

It is important that the proposed union should everywhere exist, but it may not be possible at once to effect this. Progress may be made toward it by incorporating into all training schools the distinctive feature of the Wellington school, and admitting only those who have received normal training or an equivalent.

In Massachusetts the time is opportune for establishing the most intimate relations between the normal schools and the training schools. All but one of the normal schools have new and commodious buildings; three have well equipped model schools. One normal school is about to have a \$225,000 building erected; and already a large number of the cities and towns of this State have excellent training schools.

Let all the teachers of New England have the advantage of normal training and practice schools; this for consistency's sake and in the interest of the children.

This report was prepared to answer a specific question. It aims to enforce the necessity for having a practice department connected with all normal schools. It intimates the need of State certification of teachers, provision for paying them more liberally in the poorer towns, and a considerable increase in the number of normal schools.

It goes without saying that to be of the greatest benefit to the normal students the nearer the practice schools are to the normal schools the better. From which it is a natural inference that the normal schools of the future should be located in or near cities or large towns where ample provision can be made for model and practice schools. That additional normal schools are needed, and should be provided for in the near future, it is superfluous to state. With her long-cherished policy there seems to be no alternative for the State but to enlarge and improve the means for educating the teachers.

TEACHERS' INSTITUTES, SCHOOL COMMITTEE AND SUPERINTENDENT AND OTHER MEETINGS.

A detailed report of the institutes and committee and superintendent meetings is embodied in the report of the secretary. Five of the former were held, four in Middlesex County, one in Barnstable County. All were well attended. The institutes were conducted in grade sections; the plan, also the exercises in general, elicited expressions of approval from the members. To these and to the instructors and conductors of the institutes the people entertaining them extended most generous hospitalities.

Six meetings of the committees and superintendents were held, four in different sections of Middlesex and two in Barnstable County. Nearly all the towns of these two counties were represented at these meetings by committees and superintendents.

The large number of associations of teachers and superintendents, including the National Association, with its council and several departments; the American Institute of Instruction, covering New England; the Massachusetts State, the Classical and High School, the Normal School, each holding a meeting annually; the New England Superintendents', the

District Superintendents', the Association of Educational Workers, the Industrial Art, the Kindergarten Association, with the county and town associations, some meeting semi-annually, others more frequently, indicate the zeal manifested by the teachers in the discussion of educational theory and practice along the various lines. It is a serious question whether a concert of action among these several associations might not evolve a plan which would enable teachers and superintendents to derive the benefits they bestow with less sacrifice of time and strength than is at present required. It would seem to be practicable to avoid the conflict which at present occurs in the times of holding teachers' institutes and county associations by confining each to a particular and different season of the year. And if the superintendent and school committee meetings are to continue, they might possibly combine with those of the district superintendents.

Respectfully submitted,

GEO. A. WALTON,

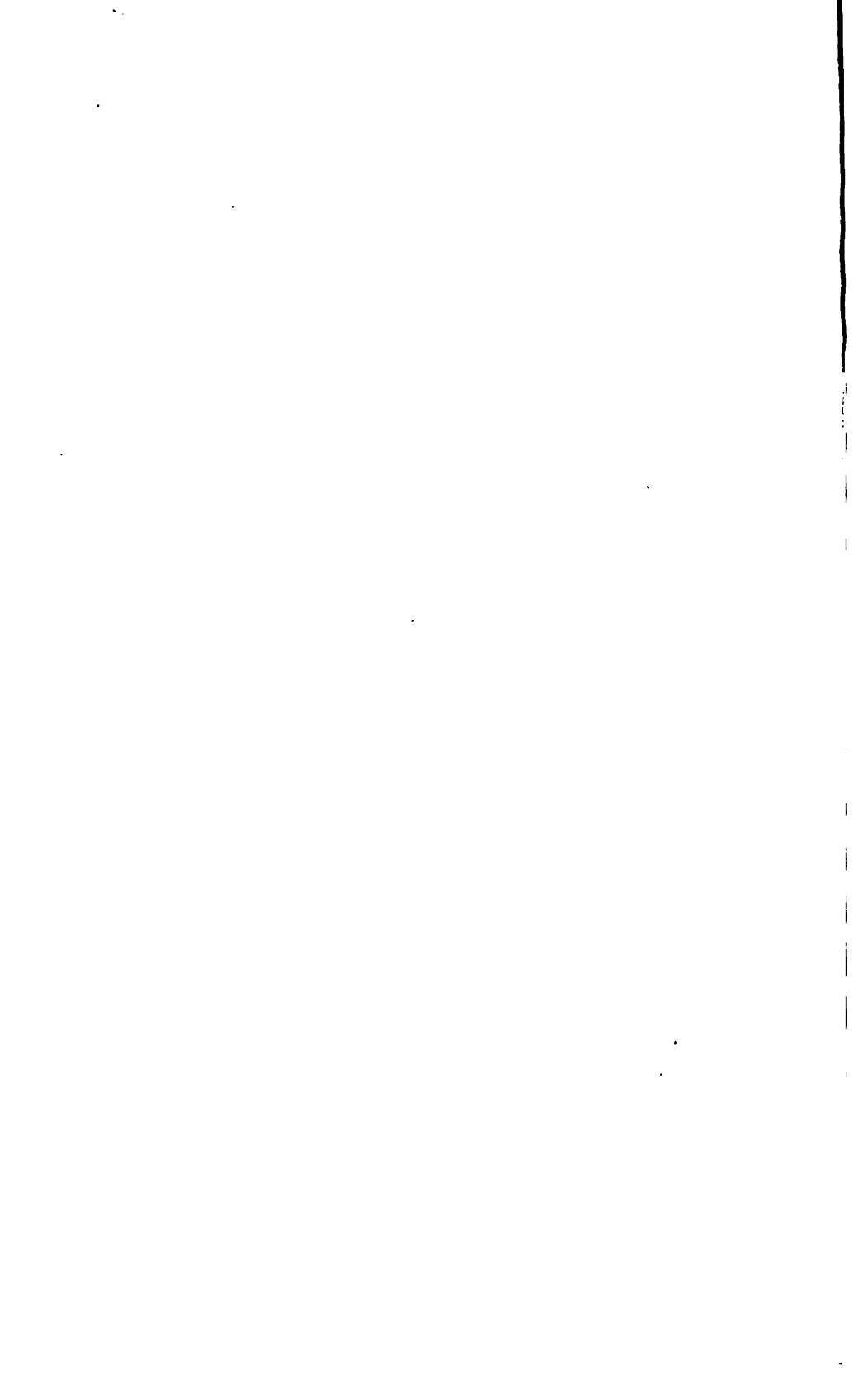
Agent of the Board of Education.

WEST NEWTON, Dec. 30, 1893.

B.

REPORT OF JOHN T. PRINCE,

AGENT OF THE BOARD.



REPORT.

To the Board of Education.

In October of the present year I was given leave of absence by your honorable Board to visit some of the educational centres of the Central and Western States for the purpose of observing the methods of organization and teaching in the schools. In accordance with your request, I respectfully submit the following brief report of my observations.

It should be observed at the outset that my purpose in visiting the schools was not so much to judge and criticise as to find features of excellence which our schools do not possess and which we can profitably adopt. For this reason I shall, in referring to some points of peculiar merit, take occasion to show what may be done in Massachusetts along certain lines to improve her schools.

In selecting points of observation I sought the advice of persons competent to judge where the most favorable conditions would be and where the best work would be most likely to be found. I was able to visit nearly all the places thus recommended, remaining one or two days in each place. I took occasion also to examine carefully the various school exhibits at the World's Fair, mainly for the purpose of ascertaining what places to visit for certain kinds of work.

SCHOOL ADMINISTRATION.

The administration of our schools, so far as the method of securing teachers and the supervision of the schools are concerned, has been the subject of criticism on the part of Western educators. I was therefore attracted first of all to the plans of administration which are unlike ours. In nearly all the States outside of New England the head of the system of schools is the State superintendent, generally elected for a term of years by the people, as in Michigan, Indiana and Mis-

souri, but sometimes elected by the Legislature, as in New York, or appointed by the Governor, as in Pennsylvania. His duties are variously defined, such as visiting educational institutions, construing school laws, apportioning the school revenues, examining and licensing teachers, and making reports to the Governor or Legislature.

There is a State Board of Education in nearly all States, which is variously constituted, but generally the membership is defined by law. Thus, in Indiana the membership consists of the State superintendent, president of the State University, president of Purdie University, president of the State Normal School and superintendents of the three largest cities of the State. Their duties consist chiefly in the examination and licensing of teachers. The county superintendents of the Western States are generally elected by the people for a term of years. Their duties are in general to visit the schools of the county, to examine and license teachers, and in some cases to revoke licenses, to hold institutes and to make a report to the State superintendent or State Board.

By comparing these features of school administration with corresponding features of the Massachusetts system, we find some points of resemblance and some points of difference. With the exception of the examination and certification of teachers, to which I shall refer later, there is very little administrative service of the Western schools which is not now rendered or which may not be rendered in Massachusetts by more democratic and conservative means. The only possible advantage that can be claimed for the Western plan of supervision is the greater authority that is vested in State or county officials for the settlement of differences or for the removal of teachers. For example, in some States the laws are interpreted by the State superintendent and all questions of dispute are left to him for decision; whereas such duties are performed in Massachusetts by the secretary and agents of the State Board only by the courtesy or permission of parties concerned. In some States the county superintendent is obliged by law to report upon the schools of the county, a duty which is performed freely in this State by agents of the Board, where criticism is likely to be most needed and heeded. The imposition of legal authority to criticise sometimes creates a certain

restraint on the part of the one who criticises and an unwillingness to co-operate on the part of those who are criticised or who should remedy faults exposed. Take for example the duty devolved upon the county superintendent to criticise publicly the schools which are under the direct management of the very officials who elect him. What candid judgment can be expressed under such circumstances? And how different must be the feeling of teachers and local boards in receiving criticism from what it is when the criticism is voluntarily sought by them or when the criticism is given in the form of advice or suggestion. Without desiring to magnify the office of agent of the Board, I sincerely believe that his influence in improving the schools and in shaping public opinion among local school officials and people is enhanced by the very fact that he has no authority directly given him by law.

I am inclined also to believe that our present plan of district supervision is more effective than the plan of supervision by county superintendents. The field of labor of our district superintendents is smaller and their direct influence in improving the work of teachers is consequently much greater than under the county plan. Moreover, the connection between the district superintendent and school board is more close and is more cordially co-operative than it is likely to be between local trustees and county superintendents. One thing, however, is needed to make our present plan effective throughout the State, and that is to make district supervision obligatory. There are to my knowledge several towns at present unable to make a union with other towns on account of geographical difficulties. The remedy lies in forming by law districts for supervision somewhat as our senatorial and representative districts are formed. By such an arrangement all parts of the State can enjoy the privileges of skilled supervision which a majority of the schools now have.

The school administration of Western cities is not unlike that of our Eastern cities, although the tendency seems to be to give larger powers into the hands of the superintendent than is customary here. In some cities the nomination of teachers is wholly in the hands of the superintendent, who has also the entire supervisory charge of the schools, including the promotion of pupils, the making and direction of the course of

studies, the correction and improvement of methods of teaching and the unification of the work of special teachers. Some of our cities would do well to adopt a similar plan and thereby avoid the difficulties which result from a lack of responsible direction and harmonious co-operation. I feel sure that much of the good work which I saw in several of the Western cities is directly due to the large powers that are given to the superintendent of schools or other supervisory officials.

THE EXAMINATION AND CERTIFICATION OF TEACHERS.

Time and life certificates for teachers are issued by nearly all of the Central and Western States, either through the State superintendent, Board of Education or board of examiners appointed for the purpose. County certificates of various kinds are also issued by the county superintendent or county board of examiners. The examinations which candidates are required to pass are generally written, and for securing life or long-period certificates success in the school-room is considered essential. It is understood that teachers holding these certificates may be elected by local boards without further examination.

Massachusetts stands almost alone among the States in permitting the local appointing power to determine the qualifications of teachers. As to the adoption of the policy of other States, there is expressed a fear of centralization and a consequent decrease of interest in the schools on the part of local communities. The experience of other States during many years should give us assurance of safety in this regard, while the dangers of our present plan, in affording opportunity for political and social considerations to weigh against the best interests of the schools, ought to be obvious to all. George William Curtis once said on this point:—

Teacherships in the schools are not popularly regarded as subjects of patronage. But are they not so practically, and is it wise that they should remain so? What is the present system? I believe that the requirement of certification or license before appointment is universal in all the States of the Union. The examination upon which the certificate or license issues is, then, the cardinal point. What are the vital, essential conditions of effective examination? To be

properly effective the examinations must be uniform, entirely competent, and wholly independent of the appointing power. The examiners must be sincerely interested in education, familiar with the duties of a teacher and with the requirements of the art of teaching, and capable of conducting an examination to ascertain both the scholastic attainments and the specific professional fitness of the candidates. Wherever these conditions do not exist, the public school system, and therefore the whole community, suffers.

That these conditions do not exist in Massachusetts at the present time is evident, and to the fact that they do not exist may be attributed some of the defects which are everywhere seen and which have been commented upon in nearly every report of the agents of the Board for the past twenty years. It is not necessary nor would it be well for Massachusetts, with her wealth and superior educational facilities, to place the limit of qualifications as low as they are placed in some States, many of whose examinations for teachers ought to be passed by graduates of grammar schools. We can well afford to fix a high standard in these examinations which should call for breadth and depth of scholarship as well as abundant professional knowledge. Nor would it be well to limit the inquiry to what can be put upon paper. The candidate's life and character should be inquired into, and whatever else that goes to make up an impressively high personality, which is of paramount importance for every teacher. When all these qualifications are found to be satisfactory to the examining Board, certificates of permission to teach for a time may be given. During this probationary period the work of the teacher should be observed and tested for the purpose of finding data upon which a second and perhaps a life certificate may be granted. The State examinations of some foreign countries may be a guide for us in scope and thoroughness. In some countries two examinations are given at different times, the intervening time being a period of probation. These examinations are oral and written, and test in a thorough manner the candidate's scholastic and professional qualifications. In some such way our examinations could be given, and from among those who passed them, local boards and superintendents could select their teachers.

Those who are most familiar with the extent of local taxation for schools on the part of the smaller towns and of the growing inability of these towns to meet the demands made upon them for a "sufficient number" of good schools know that some equalization of taxation in the State at large must be made before they can meet the increased expense of raising the standard of teaching to the point indicated above. It is no doubt true that the interest in public school education manifested everywhere throughout the State is attributable in part at least to the efforts of towns to help themselves independent of outside aid. But it may not be generally known how far local taxation for schools has been carried in this State or how different its burden is in the various sections. No State in the Union raises so much for schools by local taxation per capita as does Massachusetts, while the entire amount raised by local taxation is exceeded by only four States. This policy of local taxation, which follows as a necessary consequence of local self-government, is by no means oppressive to a large portion of the State, but in some sparsely settled regions it has reached its limit. There are towns in the Commonwealth whose burden of taxation for the support of schools is tenfold as severe as it is in other towns. While this burden is perhaps not excessive in the smaller towns, and need not be less than it is, it ought not to be more. To maintain the schools, therefore, in these towns at an increased cost, further help from the State must be given. But the assistance rendered to the poorer sections should not be regarded as a gift from the wealthier sections, but as a just equalization of burdens that ought to be borne by the State at large. Just as no citizen or class of citizens is prevented through poverty from receiving the protection of the State from violence or fraud, so should no child or class of children in the Commonwealth be defrauded from their just rights of education either in kind or in amount.

CLASSIFICATION AND PROMOTION OF PUPILS.

Very generally throughout the West the course for the primary and grammar grades covers a period of eight years, being one year less than is given in corresponding grades in most of our cities. But the age of admission is one year later than we admit pupils, no child being permitted to enter the primary

school before the age of six years. The age of admission, therefore, to the high school is about the same as it is in Massachusetts. In some of the larger cities the kindergarten, covering a period of three years, beginning at the age of three years, is made a constituent part of the public school course.

I was glad to see that promotions in the primary and grammar grades are generally made semi-annually, when the number of pupils permits such a course. The little disturbance occasioned by the more frequent adjustment of classes and by having two divisions in a room is not considered serious enough to outweigh the advantages gained by having a shorter time between the grades.

Promotions in nearly all cases are left to the judgment of the teachers and principals, and in no case, so far as I could learn, were promotions based solely upon examinations given for the purpose. On account of the comparatively short time between the grades, the work of pupils is easily adjusted to their needs and less repetition of work is necessary. In one city all matters relating to the classification and promotion of pupils are left to the assistant superintendent, who is "authorized at any time during the year to promote pupils to a grade higher than the one to which they belong or send them to the grade next below, as the best interests of the pupil and school require." Under this plan individual promotions are frequent, the assistant superintendent informing me that she rarely goes into a room without promoting a pupil.

TEACHERS' INSTITUTES.

The custom of the West in having teachers' institutes of several days' duration is frequently cited as an argument in favor of long institutes and as a reason why Massachusetts may be making a mistake in limiting the time of institutes to a single day. Inquiry into the circumstances and needs of the two sections will reveal reasons for the difference of practice, both in the character of the meetings and in the length of time for which they are held. The relative number of normal schools and of normal school graduates is much smaller in the West than in Massachusetts, and, therefore, there is a larger proportion there than here of untrained teachers. In many of our institutes a large majority of the attendants are normal school

graduates, to whom the lessons of the institute are only practical illustrations of principles already learned. It is obvious that such teachers do not need the long institutes which are needed for teachers whose knowledge of principles is wanting.

NORMAL AND TRAINING SCHOOLS.

There seems to be the same disposition on the part of school authorities in the West as in the East to regard the city training school as of equal or superior value to the State normal school so far as professional preparation of teachers is concerned. In this, as in most questions of policy in which there is a difference of opinion among earnest men and women, there are two sides. The city training school doubtless serves the purpose of arousing and maintaining a sentiment in favor of professional training as a necessary preparation for teaching and of helping young women to manage large numbers of children together. Moreover, it puts the young teacher in possession of devices which are of great immediate use. These advantages, which are not gained in all normal schools, together with the added advantage over the State school and college of convenience for residents of the city, have caused the city training school to stand high in the estimation of school boards and superintendents, and whenever it can be shown that its support occasions no increased expense to taxpayers the institution becomes one of great popular favor. But, granting all the benefits which its most enthusiastic supporters would claim for it, the city training school as it is generally conducted cannot in any true sense be considered as adequate to the task of furnishing a complete and thorough preparation for the profession of teaching. It is not reasonable to suppose in the first place that one or two persons to whom is committed the teaching of the theory of education can possibly do efficiently the work which ought to be expected from the entire faculty of a normal school. I say "ought to be expected" because of the fact that it is not done in some normal schools as it should be done, and this fact may be one reason why superintendents have yielded to the wish of school committees to have their own high school graduates trained at home with little expense to the students. If it is true that any of our normal schools are weak in the inculcation of principles, there is little gain in the estab-

lishment of schools that must from their very nature be weak also; and if it is true that the facilities for needed practice are insufficient in the normal schools, it can in no way strengthen them or the cause of good teaching to set the practice schools apart from the normal schools.

Our normal schools have added to their efficiency greatly by the introduction of practice for the undergraduates under wise direction. They could, I believe, add still more to their efficiency if with their excellent and in some respects superior features they could have the same facilities for observation and practice which are afforded in the Illinois State normal school at Normal and in the Cook County normal school at Chicago. I would have also a closer connection between the department of theory and the department of practice than exists in most normal schools. In the Cook County school above alluded to, each member of the faculty has charge of a special subject or set of subjects. He attends to teaching the subject to normal students, and under his direction the same subject is pursued in the practice school, both in laying out the work and in directing the work of teaching by pupil-teachers. There are frequent conferences of members of the faculty for the purpose of unifying and co-ordinating the subjects.

COURSE OF STUDIES.

With the exception of German, which, owing to local conditions, is taught in the grammar schools of some cities, the course of studies is much the same in the West as in most parts of the East. In nearly all the places which I visited, drawing, singing, manual training and nature study seem to have as prominent a place in the course as other subjects. For some of the technical studies special teachers are provided, who work largely through the regular teachers, thus avoiding the danger of giving an undue share of time to any subject. In St. Paul special teachers or supervisors are appointed to take charge of domestic economy, manual training, music, penmanship, drawing and German. Nature study in these schools is supervised by the science teacher of the high school, who, in conjunction with the principals of the various schools, sees that uniformity and a proper sequence of work are secured.

I was pleased to notice the very general emphasis made upon the study of English in all grades. In the Indianapolis high school the pupils of all courses are required to take English during the entire four years, there being five recitations a week in this branch during the first three years of the course. In Minneapolis literature and history are required from the very beginning. The following extract from the course of study will show the kind and amount of reading required in the various grades of the primary and grammar schools : —

	READING.	LITERATURE.	HISTORY.
Grade I,	BLACKBOARD LESSONS. <i>Harper's First Reader</i> . Supplementary. Normal First Reader — Stickney's Second — and — Stickney's First Reader.	Myths. Fairy Stories. Poems related to Science and History.	Stories of Primitive People. Esquimaux: Indians. Washington. Lincoln. Flag Days. } 6 weeks.
Grade II,	<i>Harper's Second Reader</i> . Supplementary. Normal Second — Stickney's Second — Seaside and Wayside No. I.	Myths. Fairy Stories. Poems related to Science and History. Oary States.	Agassiz. Hawthorne. Garfield. Grant. } 6 weeks.
Grade III,	<i>Harper's Third Reader</i> . Supplementary. Folk Stories — Geographical Reader — Seaside and Wayside No. II.	Longfellow. Study of Holmes. Selections from Whittier. Poems and Stories — Sci- ence and History.	Hennepin. Nicollet. LaSalle. History of Minneapolis. Stories of the Old World. } 6 weeks.
Grade IV,	<i>Harper's Fourth Reader</i> . Supplementary. Andersen's Fairy Tales — Geographi- cal Reader — Seaside and Wayside No. III.	(With Reading.) Hawthorne. Anderson. Poems and Stories related to Science and History.	Exploration. Discoveries. Stories of the Old World. } 20 weeks.
Grade V,	<i>Harper's Fifth Reader</i> . Supplementary. American History Stories — Miles Stan- dard — Evangeline — Hawthorne.	Hawthorne. Miles Standish. Evangeline. Bunker Hill. Paul Revere, etc. } With reading.	Colonies. Revolution. } 20 weeks.

	READING.	LITERATURE.	HISTORY.
Grade VI,	<i>Harper's Fifth Reader.</i> Supplementary. Birds and Bees — Burroughs. Wild Apples — Thoreau. Selections from Lowell.	Burroughs-Thoreau (Science). Poems and Stories related to Science and History.	Constitution. Rebellion. } 20 weeks. Post-rebellion. }
Grade VII,	<i>British Classics.</i> Supplementary. Stories of English History. Lady of the Lake.	British Classics. Lady of the Lake.	English History. 40 weeks.
Grade VIII,	<i>American Classics.</i> Supplementary. Heroic Ballads — Stories of the Old World. Tales from Shakespeare — Plutarch's Lives.	American Classics. Heroic Ballads. Stories of the Old World. Tales from Shakespeare. Plutarch's Lives.	American History. Civics.

The course marked out for reading in the St. Paul schools is very suggestive of what can be done in the elementary schools. Teachers are directed to have the pupils read in school as many of the books suggested as possible, and to encourage them to read others at home. I select a few of the books suggested for each grade:—

Primary Grades: Stories from the Iliad and Odyssey; Hans Andersen's Fairy Stories; Hiawatha; Poems by the Carey Sisters. *Fourth Grade:* Hawthorne's Tanglewood Tales and Wonder Stories; Arabian Nights; Kingsley's Water Babies; Dickens' Christmas Carol; Miss Alcott's Spinning Wheel Stories; Monteith's Science Reader; Hale's Stories of the Nations. *Fifth Grade:* Kingsley's Greek Heroes; Macaulay's Lays of Ancient Rome; Prisoner of Chillon; Niebelungen Lied; Bulfinch's Age of Fables; Stories from Virgil; Stories from Homer; Longfellow's Children's Hour, Old Clock on the Stair, Emperor's Birds' Nest, etc.; Whittier's Poet and the Children. *Sixth Grade:* Irving's Knickerbocker's History of New York, Rip Van Winkle, and Legend of Sleepy Hollow; Hawthorne's Grandfather's Chair and Mosses from an Old Manse; Church's Stories from Herodotus; Bulfinch's Age of Chivalry; several of Holmes's Poems. *Seventh Grade:* Webster's Bunker Hill Monument and Reply to Hayne; Hale's Man without a Country; Irving's Mahomet; Stories from Norse Mythology and poems by Longfellow, Whittier and Lowell. *Eighth Grade:* Lamb's Tales from Shakespeare; Burroughs's Birds and Bees; Longfellow's Tales of a Wayside Inn; Tennyson's Idyls of the King; Ruskin's King of the Golden River; Scott's Lady of the Lake and Ivanhoe; Addison's Roger de Coverley.

READING CIRCLES.

Within a few years reading circles for children have been formed in several Western States and have been productive of great good. In some instances they were formed and are under the direct management of teachers' associations. In the last circular of the Young People's Reading Circle of Indiana it is stated that it has a membership of 125,000, or one-fifth of all the school children of the State. Hundreds of libraries have been established in the school districts throughout the State.

The three or four books which are required to be read every year are of a high order, calculated to cultivate a taste for the best literature.

Such means of elevating the reading taste of children may not be so necessary in Massachusetts as in some parts of the West, owing to the great number of public libraries which we have ; and yet there are many children in the State who would be benefited by reading circles conducted by teachers and school superintendents. Membership in such a club could not possibly interfere with a proper use of the school reading books and might help to a higher appreciation of the uses of a public library.

Teachers' reading circles also exist in considerable numbers in the West, a means of professional culture which teachers everywhere could use with profit. The reading of books which are literary as well as professional is followed by an examination conducted by school officials. In the Indiana circle alone nearly twelve thousand members are reported.

CONCENTRATION OF STUDIES.

There is no subject relating to school-room work which is of more importance at the present time than a proper co-ordination and correlation of studies. By our present methods in general use there is an almost complete separation of the various subjects of instruction. Too often also parts of the same subject remain wholly unrelated to one another so far as instruction is concerned. One result of such a method of acquisition must be the comparative uselessness of the facts of knowledge and information which are acquired. Unrelated facts of history, geography and science are of little value to the learner, because they cannot be recalled easily, and are therefore soon forgotten. And when in their acquisition such facts have no association with past or present experiences of life they are rendered useless even when recalled, for they cannot be recognized as helpful in any given experience or be applied when they are most needed.

But the chief value of a proper concentration of studies lies in its effect upon the mind itself. By it there is formed an orderly habit of thinking and there is developed a strengthening of all the powers of the mind, assuming, of course, that an or-

derly relation of studies be recognized and that the various steps in the process of presentation be systematically taken.

These views of the importance and effect of a proper concentration of studies will, I suppose, meet with general approval. At the same time it must be admitted that little is being done to carry into effect this most important principle. In some places there is an attempt at combining two subjects, such as elementary science and language, or geography and language, and sometimes drawing is added to the combination. All this is well so far as it goes, but the combination should be more widely and more closely made if the best results are to be reached.

By far the best work which I have seen in America in the concentration of studies was in several Western cities, where the subjects of primary instruction are brought together in a very interesting way. In the lower grades the facts of nature are observed from objects appropriate to the season. From the observations thus made the children are led to make statements which are placed upon the blackboard and read by the children. The best of these statements are printed on slips of paper and again read by the children on the following day. The printing is done in some cases by volunteer pupils of the higher grades with a printing press belonging to the school. Drawing the objects observed or otherwise representing them and writing the words and sentences previously written on the blackboard occupy the time of the children at their seats. Selections of literature that have some connection with the subjects studied are talked about and read to the children. Some of the choicest parts of this literature are committed to memory and recited by the children. In the higher grades of the primary schools the same general plan is pursued, but in some schools, owing perhaps to the difficulty of getting material for reading which could be connected with the nature lessons, history and literature seem to be the central point of co-ordination.

Elsewhere in this report I have given an outline of the course in history and literature in Minneapolis. These subjects, as far as possible, are co-ordinated with science and language under the direction of the supervisor of primary grades, who says in relation to the work :—

The aim is to group the work about some central idea suggested in the course of "general lessons," so called. This course is arranged in groups. The September and October lessons include study of plant and animal life, the specimens being determined by the season. Six weeks following are given to elementary lessons in literature and history, in topics adapted to the grade. The following six weeks are occupied by the human body lessons. The order is nearly the same in the second quarter. While no arbitrary arrangement is decreed, the trend of the work is toward unification. The observation of the flower, fruit, or animal furnishes material for language lessons, oral and written, determines spelling and dictation lessons, suggests busy work, provides subject and material for reading, and is often associated with poem or story chosen from the best literature. Such unification gives meaning to the course, carries every lesson to add to and strengthen the results of every other lesson in both knowledge and power, and is moreover in accordance with the laws by which the child obtains, holds and classifies knowledge.

It is doubtful if the correlation of studies can be so completely and successfully carried out in the higher grades as is shown to be possible in the lower, and yet much more can be done than is commonly supposed possible. In the practice department of the Cook County normal school concentration of studies in all grades is an important feature, the centres of concentration being natural science, geography and history. There is an honest attempt here not only to unite closely the subjects of thought with the various forms of expression, but also to unite the various subjects themselves. The Herbartian schools abroad push the idea of concentration still further in placing one subject only as the central point of instruction, and that is sacred history, or that portion of the world's history which corresponds to the stages of the child's mental growth. The difficulties and loss occasioned by a rigid adherence to the principle of concentration are avoided in Laporte, Ind., by dividing the subjects of instruction into five groups of subjects, viz. : Number and size ; form, drawing and coloring ; science and geography ; sociology and history ; language and music. Perhaps some modification of this plan in the direction of lessening the number of groups would be a wise compromise. If within each of three groups of subjects a complete correlation could be made there would be a great gain of time and mental energy over our present practice of separation and isolation.

TEACHERS' MEETINGS.

I was greatly impressed by the frequency and valuable character of the teachers' meetings, some of which I had the privilege of attending. In Indianapolis the superintendent, supervising principals and special teachers or supervisors meet together once in two weeks. The assistant superintendent, who has special charge of the primary work, and the supervising principals, who have charge of the schools in one or more buildings, meet regularly and frequently the teachers under their charge, and the superintendent meets a large number of the teachers every week to discuss principles of education. At the time of my visit the subject of study and discussion at these meetings was "Apperception." In Minneapolis grade meetings of teachers are regularly held, and, for more specific study of principles, there are fortnightly meetings of the "Round Table." In St. Paul regular meetings of teachers are held under the direction of the department supervisors.

To the regularity and frequency of the teachers' meetings held in these cities, together with their intelligent direction by superintendents and supervisors, is due in large degree the excellent work which is seen on every hand. Some of our superintendents would do well, I am sure, to heed the lesson which these meetings afford. Infrequent, irregular meetings, carried on largely by the teachers themselves in pointless discussions, are of little use as a means of improving the schools.

HIGHER EDUCATION.

One unique feature of free public instruction in the West is the university, which stands at the head of the system in nearly every State. The direct value of these institutions in providing, free of expense, college and to some extent professional and other forms of graduate instruction is apparent, while their influence upon the lower schools is marked in various ways. Through the courtesy of President Northrop, I was permitted to visit several departments of the University of Minnesota, and was struck with the extent of facilities afforded. It comprises the College of Science, Literature and Arts, in which there are three courses, classical, scientific and literary; the College of Engineering, Metallurgy and the Mechanic Arts,

the College of Agriculture, and the Graduate Department, which offers in each of the colleges advanced courses of study leading to second degrees. The professional schools, under the direction of the university, are Law, Medicine and Surgery, Dentistry and Pharmacy. The number of students last year, including graduate students and students of the professional schools, was 1,620, 412 of whom were women.

While it may not be feasible to establish a State institution of a similar kind in Massachusetts, there are some lessons to be gained from the relations which exist between the State university and the lower schools. In the first place, there is, in the Western States which I have visited, a closeness of relation between the university and high schools that does not exist between the various colleges and high schools of this State. Besides the various and quite different demands made by the colleges for admission, there is frequently much time wasted through the want of a proper understanding of those demands on the part of high schools. In Minnesota, Indiana, and several other States high schools are approved by State authority, from which graduates can pass directly into the university without examination. Under such a plan the entire strength of teaching force may be given to a proper training and instruction of all the pupils, whereas in our high schools a large part of the time of teachers is given to preparing pupils to pass an examination which is to be given by the colleges. Much of the drill thus given is and must be of a memoriter kind, not useful as a means of culture, and not helpfully practical as a preparation for life. Not only must the pupils in college preparatory classes suffer by such waste of time, but the rest of the school must suffer as well. The only practical solution of the difficulty lies in uniting more closely the preparatory school and college, so that the regular work of the one shall be a direct preparation for admission to the other. If, by means of a commission representing the interests of all institutions concerned, there could be outlined the kind and amount of work which ought to be done as a preparation for college, and if by the same commission schools could be approved which might send their graduates, with or without conditions, to the college, one great hindrance to the efficiency of our public high schools would be avoided.

A still closer union may be made between our colleges and secondary schools, a union suggested by present and contemplated courses of some of the Western State universities. I refer to the professional preparation of teachers of secondary schools. In the college or university there may be instruction in the science of teaching, while needed training in the art may be carried on in the high schools under proper supervision. Thus would the present wide separation of ends and means between the college and public school be diminished and the great need of professional teachers of our high schools be met.

In this brief report of my Western visit I have given only such impressions as will be of general interest, dwelling mainly upon conditions which affect the schools rather than upon the schools themselves. Other and more particular points of observation, especially those relating to methods of teaching, I shall use as occasion may require. I offer no opinion as to the comparative excellence of our schools and the schools of the West. That there are some features of organization and some methods of teaching in the West which we can study with profit no one of wide observation will deny. And, on the other hand, that we have in Massachusetts a system of schools worthy of respect none will grant more willingly than the thoughtful educators of the West. Everywhere I was met with questions relating to plans already matured here and other plans only just begun, and everywhere I was told that the West still looked to us for suggestive ideas of educational reform. That Massachusetts may continue to be among the leading States in the promotion of our free school system, and not ignore the successes which other and younger States have gained, must be the fervent wish of every one of her children.

WORK OF THE YEAR.

My work during the past year has been much like that of previous years. Besides my usual work of inspection and attendance upon meetings of teachers and citizens, I have on several occasions held meetings of school committees and superintendents, and have begun, in conjunction with local superintendents, to hold parents' meetings. These two kinds of

meetings, somewhat different in character from other meetings, bid fair to accomplish much good. At the meetings of school committees and superintendents the following questions were discussed: Duties of School Superintendents; School Visitations; Teachers' Meetings and School Attendance. There was a fair attendance at these meetings and a good degree of interest was manifested in the discussions. At the parents' meetings the purposes and plans of teachers were explained in the hope of securing the assistance and co-operation of parents. The success of the two meetings already held give encouragement to the belief that meetings of this kind should be more numerous and frequent in the future.

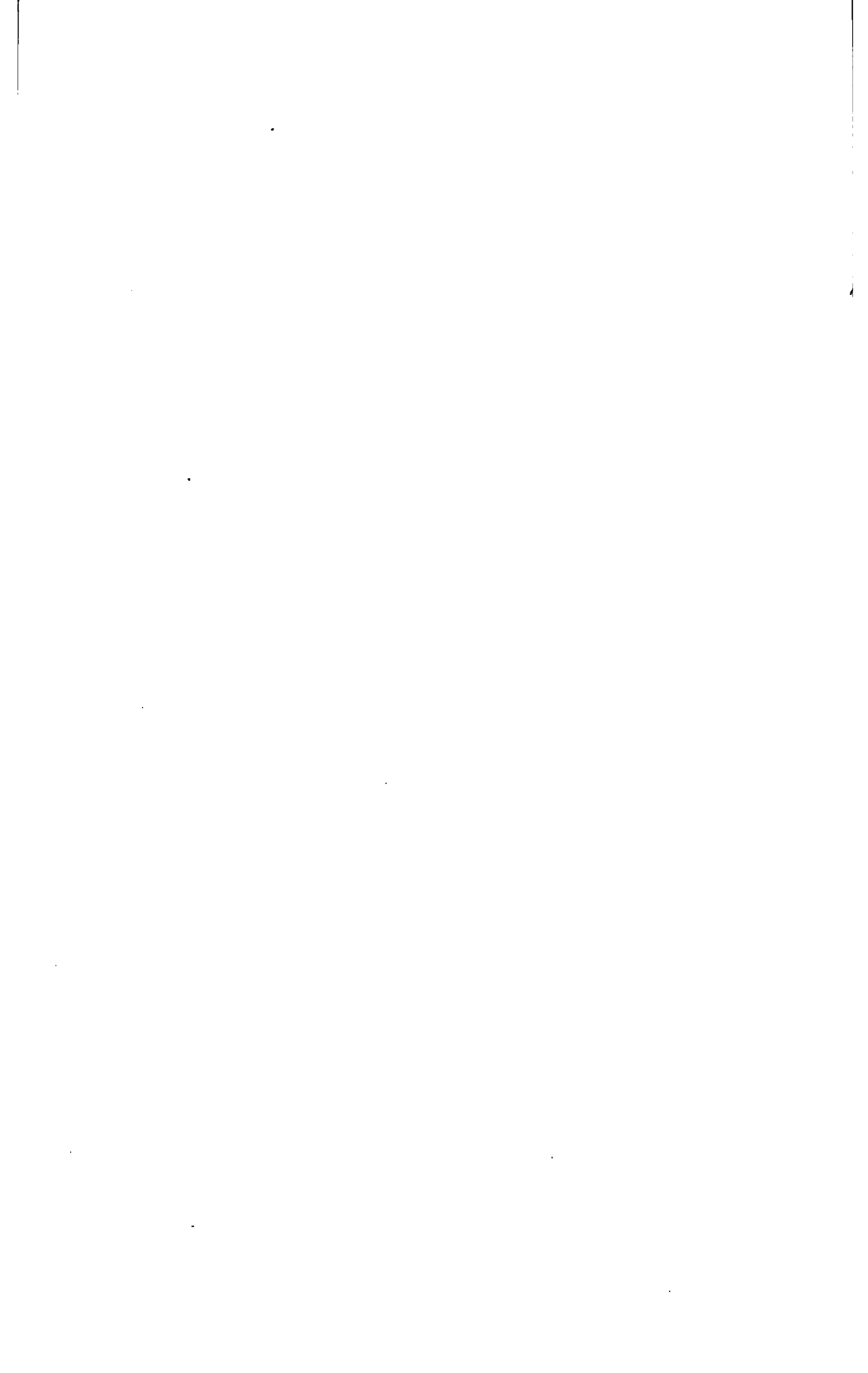
There are several towns of Bristol and Norfolk counties which have voted to accept the provisions of the act permitting them to join with other towns for the purpose of employing a superintendent of schools, but which are unable to make the desired union on account of the inconvenient distance. Some method of districting should be adopted to meet the wants of these towns. The towns of Dukes County also are unable to take advantage of the provisions of the law by reason of the fact that they have not the required number of schools to form a district. It would seem desirable to give special permission to these towns to form a district, that they may have the service of skilled supervision, which they sorely need.

JOHN T. PRINCE.

JAN. 1, 1894.

C.

REPORT OF ANDREW W. EDSON,
AGENT OF THE BOARD.



REPORT.

To the Board of Education.

A brief statement of my year's work is as follows : —

I have visited schools in the following-named towns and cities : —

Agawam,
Athol,
Auburn,
Blandford,
Boston,
Chester,
Fitchburg,
Gardner,
Grafton,
Granville,
Hampden,
Hanson,
Holden,
Holyoke,

Lancaster,
Leicester,
Leominster,
Ludlow,
Lunenburg,
Malden,
Millbury,
Monson,
Oxford,
Palmer,
Southborough,
Southwick,
Springfield,
Sutton,

Tyngsborough,
Uxbridge,
Wales,
Warren,
Webster,
Westborough,
West Boylston,
Westminster,
West Springfield,
Weymouth,
Winchendon,
Worcester.

I have held teachers' meetings in —

Agawam,
Auburn,
Beverly,
Blandford,
Brookfield,
Easthampton,
Granville,
Hanson,
Hardwick,
Hingham,

Holyoke,
Lancaster (2),
Leicester,
Northborough,
North Brookfield,
Oxford,
Princeton,
Quincy,
Royalston,
Southborough,

Southwick,
Sturbridge (2),
Tyngsborough,
Wales,
Webster,
West Boylston,
West Brookfield,
Westminster,
Weymouth.

At several of these meetings teachers were present from adjoining towns.

At evening meetings I have addressed the people of —

Agawam,	Hanson,	Sheffield,
Amherst,	Holden,	Southwick,
Athol,	Holyoke,	Warren,
Blandford,	Leominster,	West Boylston,
Granville (2),	Orange,	West Springfield,
Hampden,	Russell,	Winchendon.

I have assisted at institutes in —

Athol,	Leominster,	Sudbury,
Danvers,	Marshfield,	Wenham,
Holden,	Millbury,	West Springfield,
Holliston,	Orange,	Winchendon.
Holyoke,	Russell,	

Nearly all these institutes were preceded by evening meetings for the people. The one at Holyoke continued for two days. At Athol, Holyoke, Leominster, West Springfield and Winchendon work in the primary, grammar and high school sections was carried on during the same periods.

Half-day conferences of school committees and school superintendents have been held at —

Chester,	Palmer,	Warren,
Clinton,	Southbridge,	Webster,
Gardner,	Springfield,	Westfield,
Hopedale,	Uxbridge,	Worcester.
Northborough,		

School committees' and school superintendents' institutes have been held at Springfield, Worcester and Fitchburg. At the Springfield institute all but five towns in Hampden County were represented, and in Worcester representatives were present from thirty-three different towns.

The following topics were assigned to different speakers in advance and the discussions were exceedingly interesting and profitable : —

1. Duties of school committees; the authority that should be delegated to a superintendent.
2. School supervision; ends to be attained; difficulties encountered.
3. School visitation; purpose and method.

4. Professional training of teachers ; teachers' meetings.
5. Selection and continuance of good teachers.
6. What can be done for and with poor teachers.
7. A course of study ; what it should embrace ; relative importance of the different subjects.

TUSKEGEE.

Last January I conducted a week's institute at the Tuskegee (Alabama) Normal and Industrial School. This is the largest and most successful colored school in the Black Belt of the South. Teachers and students alike showed great interest in the work of the institute ; they are keenly alive to every educational advantage offered. On this trip I visited some of the schools in the southern section of our country, spending two days in the schools of Washington, D. C.

SUPERVISION.

Skilled supervision continues to grow in popularity with teachers, school committees and the people ; it is a great success in the smaller towns as well as in the larger.

Naturally, a little fluctuation in public sentiment is noted where the measure is not fully understood or where it may conflict with the personal interests of some of those who have the schools in charge. The towns of Ashburnham, Douglas and Lancaster voted to dispense with district supervision and delegated the work to the local school committees, though in Lancaster this was done against the protest of a majority of the school committee. All honor to that majority !

Without any question, this action was a step backward, and those opposed to supervision, but who have the good of the schools at heart, will no doubt recognize the fact in the near future.

The amendment to the supervisory law passed by the last Legislature has greatly improved the status of district supervision. This amendment provides that twenty-five schools may constitute a district ; that a district need not be broken by reason of a decrease in the number of schools or increase in the valuation of any town above \$2,500,000, and in any case for a period of three years, except by a vote of a majority of the towns interested ; and that the State appropriation to each district be increased from \$1,000 to \$1,250.

The time has now come for still farther advance. Skilled supervision should be compulsory and universal. It is needed in small ungraded schools, where wages are usually low, ability and experience limited, fully as much as in larger graded schools. The measure is no longer an experiment. The Legislature should come to the relief of the poor schools and insist upon better work and better results, which means that supervision should be *competent, mandatory and universal* throughout the State.

It is now very difficult to form new districts or to accommodate any town that may desire to unite with others to employ a superintendent, as changes must often be made in district boundaries. Necessary changes can easily be made, however, and new districts formed, when all towns, large and small, are required to employ a superintendent of schools, alone or in union with other towns.

The following new districts have been formed during the past year and superintendents employed : —

Warren and Wales ; C. A. Brodeur, superintendent.

Wilbraham, Hampden, Longmeadow and Ludlow ; Miss Mary L. Poland, superintendent.

Palmer ; W. H. Small, superintendent.

Athol ; Miss Flora E. Kendall, superintendent.

Lunenburg withdrew from the Princeton district and joined Winchendon ; D. B. Locke, superintendent.

Uxbridge united supervision with the principalship of the high school ; C. A. Bates, superintendent.

Westborough, ditto ; T. W. White, superintendent.

The other changes in the list of superintendents in my district are : Louis A. Pratt in place of M. J. Smith, in the Chester district ; J. I. Buck in place of D. P. Dame, Webster ; C. S. Lyman in place of F. E. Sanborn, in the Oxford district ; and L. P. Nash in place of R. F. Colwell, Gardner.

This then leaves only the following named towns in my district without competent supervision : —

In Hampden County : —

Blandford, . . .	10 teachers.	Russell, . . .	7 teachers.
Holland, . . .	2 "	Tolland, . . .	6 "
Montgomery, . . .	4 "		

In Worcester County :—

Ashburnham, . . .	13 teachers.	Lancaster, . . .	13 teachers.
Auburn, . . .	7 "	New Braintree, . .	6 "
Charlton, . . .	13 "	Oakham, . . .	7 "
Dana, . . .	4 "	Paxton, . . .	4 "
Douglas, . . .	13 "	Rutland, . . .	8 "
Hopedale, . . .	9 "	Sutton, . . .	16 "

With but two or three exceptions the work in these towns is poor, in some of them wretchedly so. If the school committees and teachers were the main losers, the case would not be so deplorable; the boys and girls, however, are the ones who suffer most. These schools need the careful oversight and direction of a superintendent who devotes his time exclusively to the inspection of schools and the training of teachers. The work in these schools could easily be improved from 50 per cent. to 100 per cent.

Without a superintendent, teachers usually lack a professional spirit; they rarely attend institutes and educational gatherings; and among the ambitious ones any sacrifice that may be made or any specially good work that may be accomplished is likely to receive but little recognition. Good teachers invariably prefer to teach under skilled supervision.

WORK OF THE SCHOOLS.

In many respects the schools of Massachusetts rank high, — in the elegance and convenience of the school buildings, in the completeness of their equipment, in the abundance and excellence of the apparatus and books furnished, in the number of professionally trained teachers employed, and in the work accomplished. In all this we have reason for self-gratulation. The danger is, however, that we rest upon our laurels, satisfied that our schools are now perfect, beyond any possible improvement.

A broadening of the horizon, a glance at what is done for the schools and by the schools in some other States, would remove the self-complacency too prominent in many sections of Massachusetts. Opposed to this conservatism is the ever active conviction among progressionists that there is much yet to be done for the schools.

One important phase of educational discussion at the present time is the question how to enrich the grammar-school curriculum so as best to provide for the general development and special training of our youth. The question of what can be omitted from the course and what should be supplied causes us to study carefully the value of each branch of instruction, to ask repeatedly, What is the purpose of this study? How can this purpose be best attained?

One of the lessons taught us by a study of the French and German schools is that we spend too much time upon the so-called common-school studies. We wait too long before introducing our pupils to higher mathematics, foreign languages, and the sciences.

Our grammar school stands as the college for the masses. But a small proportion of our pupils go farther. Of the 391,000 pupils in the public schools of this State only about 7 per cent. ever attend a high school. The education offered in the grammar school should be broad and stable, a solid foundation for what is to follow, school or business.

If additional subjects are to be introduced into the schools, room must be made for them by *omission*, *abbreviation* and *correlation*. In fact, a general strengthening of the existing course must be undertaken by judicious elimination and wise substitution.

LANGUAGE.

Language work, including reading, should by right monopolize the greater portion of the pupil's time and attention during the early years of his school life. Much well-directed effort here is a wise economy of time.

The chief criticism to be made on language teaching in primary and grammar grades is that in many schools the work is pointless and insipid. The lessons are not definite and progressive. Term after term the old straw is threshed and but little wheat is garnered. Teachers hold closely to the course of study and text-book, attempting only the minimum of what is there suggested.

In many of our large graded schools technical grammar in all its technical purity is at a premium even in the intermediate grades. Children are not taught to use the English language

easily, correctly and cogently. Composition and reproduction work, essay and letter-writing, lack vigor and polish.

In the early teaching of reading, there is too often a noticeable lack of push. The average primary teacher could easily quadruple the amount accomplished in a term or year. Where reading is best taught, children have an untold advantage over their less fortunate mates, as the ability to glean thought quickly and intelligently from the printed page is a very true index of ability to do quick, intelligent work in all other departments. The fourth, fifth and sixth readers of any standard series can well be omitted, made up as they are of miscellaneous collections of good, bad and indifferent clippings from every source — something of everything that the wisdom and foolishness of man have ever written. In place of these, our boys and girls should be introduced to standard literature, selections of real merit. This study of good books should be made so attractive as to give them for life that love for good literature which is in itself a liberal education.

ARITHMETIC.

Arithmetic as a bread-and-butter science has ever appealed with great force to all classes. No wonder it is sometimes given too great prominence. In teaching this subject, as in reading, primary teachers are apt to give children too much broth, too little meat. The tendency is to depend too long upon splints, blocks, pegs and illustrative work.

In advanced grades, if a large proportion of what is offered in the written arithmetics should be treated as mental problems, all the manual operations being omitted, far more discipline and power would be the outcome. Mental arithmetic, when well taught, leads a pupil to read a problem intelligently, to see the conditions readily, to think a correct conclusion, and to express the same to others promptly and accurately, — far more than can result from much of the diluted figure work of to-day.

Many topics treated at more or less length in most text-books should be entirely eliminated from the grammar school course, such as circulating decimals, longitude and time, equation of payments, stocks, bonds, exchange, series, alligation, annuities, arbitrary processes and technical terms used only in the school-room.

The following topics should be greatly abbreviated : Figure work in the early development of the fundamental operations ; drill on 11, 13, 17, 19, 23, 26, 29, 31, etc., numbers not found in the multiplication tables ; drill on the fractional parts of numbers not multiples of the denominators ; the use of fractions having denominators greater than 20 ; decimals of more than three places ; factoring, greatest common denominator, least common multiple.

If the fundamental operations on numbers below 20 are well taught and thoroughly drilled, the remaining work in this line will be comparatively easy.

In common fractions there is a tendency to spend the time upon those having large numerators and denominators, as (from a book in common use) 2268 and 1242 for numerators and 3444 and 2323 for denominators. In decimals (again from a book in common use), to read .4060790843 and to divide 49.26554756 by .0759.

Much of the work usually assigned to denominate numbers, weights and measures, possible and impossible reductions, unused tables, etc., can be greatly abbreviated.

A general introduction of the metric system would be a great saving in time and strength.

Percentage, in its various applications, can be simplified by uniting the various subdivisions, treating profit and loss, taxes, insurance, duties, customs, commission and brokerage, and discount as simple applications of the same general principle, instead of as distinct subjects with separate and distinct processes.

Interest can be shortened by teaching thoroughly one method, and one only, — the method by aliquot parts. When one considers the old six per cent. method, the thirty-days-per-month method, the exact day method, the aliquot part method, the time spent in finding the principal, the time, the rate, the what not, the dreary days and months spent in computing the amount due on a note by the mercantile method, the United States method, the Vermont method, the New Hampshire method, the Connecticut method, it is easy to see why interest has assumed an undue prominence.

Ratio and proportion, especially compound proportion, are of little value to the average student or business man, except for the drill in analysis.

Involution and evolution, except in finding the hypotenuse of a right-angled triangle, are of small consequence. Much of mensuration can be better relegated to geometry.

If now our reviews are used to show the relations the different subjects hold to each other, to correlate these subjects thoroughly, and to fix principles rather than exalt hobbies, they may be made of much more value as well as be greatly abbreviated.

GEOGRAPHY.

In this subject, as usually treated by authors and teachers, there may be a cut-down of at least one-half. Here we have a combination of dictionary, encyclopædia, gazetteer, atlas, mineralogy, botany, zoölogy, ornithology, ethnology, geology, astronomy, chemistry, physics, and, if there be any other science, that also. The work of teacher and pupil is mostly informational, — endless details, facts, statistics, names of everything namable, heights, lengths, areas, population, map questions by the hundred, definitions, etc.

Although all this occupies a very large proportion of the time and attention of pupils, as it does space in the book, the outcome is small indeed. If it were not for the fact that the memory will happily unload the greater portion of all this rubbish as soon as the examination is passed, and the child thereby be saved, the result would be pitiful.

As an instance of modern geography teaching, in one of the best known and most commonly used text-books of to-day there are over seven hundred questions on the map of Europe. As an illustration of the valuable information that children are expected to gather and retain, a few of the questions are here given, specimens of many: —

When it is noon at Greenwich, what time is it at St. Petersburg? In Gibraltar? In Rome? What is the length of Europe on parallel 50° N.? Its breadth from the strait of Gibraltar to North Cape? How many miles from Cape Chelyuskin is the North Pole? The Arctic Circle? The Tropic of Cancer? How far from East Cape is the Cape Prince of Wales? How many degrees of the Arctic Circle are in Asia? Of the Tropic of Cancer? Of the meridian 100° west?

If now geography is correlated with history, civics, nature study, the non-essentials are omitted, and the essentials, such

as vertical structure, heat belts, distribution of rainfall, climate, soil, productions, races of men, centres of trade, are emphasized through comparison and contrast, geography may easily be brought to proper proportions.

Other branches are sometimes made hobbies and given an undue amount of time, but by judicious abridgment the overcrowded curriculum may be made to assume such proportions as will allow of the introduction of additional subjects. Elementary science and nature study will claim more and more attention. We are just beginning to appreciate the beauty and importance of these branches of study. Instruction here can well be coördinated with language, reading and drawing. Something of higher mathematics may well displace the useless in arithmetic, while as much of a place can be given to foreign languages, manual training and anything else of educational value as seems advisable.

No incentive to further study will be removed, while the multitudes who are obliged to quit school life at the completion of the grammar-school course will be vastly better equipped for the duties of life as well as fitted to enjoy its best pleasures.

LIST OF SUPPLEMENTARY READERS.

During the past year, as chairman of a committee* appointed by the Worcester County Teachers' Association, I have given considerable time and study to the compilation of a list of choice books designed to assist teachers and parents in selecting suitable reading for young people.

GRADES I., II., III.

It is recommended that the teachers in these grades read aloud to their pupils at least fifteen minutes each session for the purpose of introducing our young people to standard literature.

Literature.

A Child's Garden of Verses. Stevenson.	Kindergarten Stories. Wiltse.
Æsop's Fables.	King of the Golden River. Ruskin.
Alice's Adventures in Wonderland. Dodgson.	Little Lord Fauntleroy. Burnett.
Children's Garlands. Patmore.	Memory Gems. Northend.
Dream Children. Scudder.	Mother Goose.
Fables and Folk Stories. Scudder.	Old Testament Stories.
Fairy Tales. Andersen.	Open Sesame.
Fairy Tales. Grimm.	Poetry for Children. Elliot; Lamb.
	Rhymes and Jingles. Dodge.

* A. W. Edson, Richard H. Mooney, Ellen M. Haskell, committee.

Information.

American History Readers. Pratt.
 Aunt Martha's Corner Cupboard. Kirby.
 Black Beauty. Sewell.
 Brooks and Brook Basins. Frye.
 Cats and Dogs. Johonnot.
 Feathers and Fur. Johonnot.
 Four-foot, Two-foot, No-foot. Richards.
 Grandfather's Stories. Johonnot.
 Learning about Common Things. Abbott.
 Little Folks of Other Lands. Chaplin and Humphrey.

Madam How and Lady Why. Kingsley.
 My Saturday Bird Class. Miller.
 Nature Readers, Nos. 1 and 2. Wright.
 Nature Stories for Young Readers. Bass.
 Rob and His Friends. Brown.
 Seven Little Sisters. Andrews.
 Stories for Children. Hale.
 Stories Mother Nature Told Her Children. Andrews.
 Stories of Massachusetts.
 The Strike at Shane's.

GRADES IV., V., VI.

It is recommended that these and similar books displace the standard fourth, fifth and sixth readers now in common use.

A few books are again named, some to be read by the pupils at school, others at home:—

Literature.

A Boy's Town. Howells.
 Among the Hills. Whittier.
 Ballads. Whittier.
 Being a Boy. Warner.
 Evangeline. Longfellow.
 Fables and Folk Stories. Scudder.
 Fairy Tales. Andersen.
 Gettysburg Speech. Lincoln.
 Grandfather's Chair. Hawthorne.
 Hiawatha. Longfellow.
 Holmes Leaflets. Dodgson.
 King of the Golden River. Ruskin.
 Little Daffydowndilly. Hawthorne.
 Little Lord Fauntleroy. Burnett.
 Little Men. Alcott.
 Little Women. Alcott.
 Longfellow Leaflets. Hodgdon.

Merry Adventures of Robin Hood. Pyle.
 New England Legends and Folk Lore. Drake.
 Old-fashioned Girl. Alcott.
 Old Testament Stories.
 Open Sesame.
 Popular Tales from the Norse. Dasent.
 Robinson Crusoe. De Foe.
 Snow Bound. Whittier.
 Stories of the Iliad and Odyssey. Church.
 Swiss Family Robinson. Wyss.
 Tanglewood Tales. Hawthorne.
 Tent on the Beach. Whittier.
 The Birds' Xmas Carol. Wiggins.
 Water Babies. Kingsley.
 Whittier Leaflets. Hodgdon.
 Wonder Book. Hawthorne.

*Information.**

Aboard the Mavis. Markham.
 A Hunting of the Deer. Warner.
 A Man without a Country. Hale.
 Around the Hub. Drake.
 Around the Yule Log. Markham.
 Aunt Martha's Corner Cupboard. Kirby.
 Birds and Bees. Burroughs.
 Biographical Sketches. Hawthorne.
 Black Beauty. Sewell.
 Boston Town. Scudder.
 Boys of '76. Coffin.
 Boys of '61. Coffin.

Boys' Own Book.
 Brooks and Brook Basins. Frye.
 Building the Nation. Coffin.
 Cast away in the Cold. Hayes.
 Children of the Cold. Schwatka.
 Child's Book of Nature. Hooker.
 Claws and Hoofs. Johonnot.
 Dear Daughter Dorothy. Plympton.
 Drake. Towle.
 Each and All. Andrews.
 Fairyland of Flowers. Pratt.
 Fairyland of Science. Buckley.

Five Little Peppers. Sidney.
 Flyers, Creepers and Swimmers. Johnnot.
 Following the Flag. Coffin.
 Geographical Readers. King; Scribner; Phillips.
 Grandfather's Stories. Johnnot.
 Hans Brinker. Dodge.
 Historical Readers. Gilman.
 Histories. — Alexander, Cæsar, Xerxes. J. Abbott.
 How to get Strong. Blaikie.
 Indian History for Young Folks. Drake.
 Information Readers.
 Life of B. Franklin.
 Little Flower Folks. Pratt.
 Little Flower People. Hale.
 Little People of Asia. Miller.
 Magellan. Towle.
 Marco Polo. Towle.
 My Summer in a Garden. Warner.
 Natural History Readers. Wood.
 Nature Readers, No. 3. Wright.
 Old Times in the Colonies. Coffin.
 Our Fatherland. Carver and Pratt.
 Our World Reader. Hall.
 Page, Squire and Knight. Adams.

Pilgrims and Puritans. Moore.
 Pizarro. Towle.
 Raleigh. Towle.
 Reader in Botany. Newell.
 Seven Little Sisters. Andrews.
 Seven Little Sisters prove their Sisterhood. Andrews.
 Sharp Eyes. Burroughs.
 Standish of Standish. Austin.
 Stories of American History. Pratt.
 Stories of Heroic Deeds. Johnnot.
 Stories of Other Lands. Johnnot.
 Stories of Our Country. Johnnot.
 Stories of the Old World. Church.
 Stories of the Olden Time. Johnnot.
 Storyland of Stars. Pratt.
 Tales of a Grandfather. Scott.
 Ten Boys from Long Ago till Now. Andrews.
 Ten Great Events in History. Johnnot.
 The Boys' Froissart. Lanier.
 The Boys' King Arthur. Malory.
 The Children's Crusade. Gray.
 True Stories from New England History. Hawthorne.
 Wings and Fins. Johnnot.

GRADES VII., VIII., IX.

Literature.

American Authors and their Birthdays.
 Roe.
 A Noble Life. Craik.
 Arabian Nights. Hale.
 Ben Hur. Wallace.
 Biglow Papers. Lowell.
 Bitter Sweet. Holland.
 Bunker Hill Orations. Webster.
 Chesterfield Letters. Ginn.
 Christmas Carol. Dickens.
 Courtship of Miles Standish. Longfellow.
 Dickens' Novels.
 Essays of Elia. Lamb.
 Excursions. Thoreau.
 Greek Heroes. Kingsley.
 Ivanhoe. Scott.
 Kathrina. Holland.
 Lady of the Lake. Scott.
 Lays of Ancient Rome. Macaulay.

Lincoln's Addresses.
 Macaulay's Essays.
 Masterpieces of American Literature.
 My Hunt after the Captain. Holmes.
 Paradise Lost. Milton.
 Picciola. Saintine.
 Pilgrim's Progress. Bunyan.
 Romona. Jackson.
 Selections from Ruskin.
 Shakespeare's plays.
 Sketch Book. Irving.
 Tales from Shakespeare. Lamb.
 Two Years before the Mast. Dana.
 The Talisman. Scott.
 Town Brown at Rugby. Hughes.
 Uncle Tom's Cabin. Stowe.
 Vision of Sir Launfal. Lowell.
 Webster's Orations.

Information.

American Boys' Handy-Book. Beard.
 American Girls' Handy-Book. Beard.
 American Explorers. Higginson.
 Among the Lawmakers. Alton.

A Short History of the English People. Green.
 Boy Travellers. Knox.
 Bulfinch's Age of Fable. Hale.

Bulfinch's Age of Chivalry. Hale.
 Character. Smiles.
 Child's History of England. Dickens.
 Ethics of Success. Thayer.
 Fifteen Decisive Battles. Creasey.
 First Steps in Electricity. Barnard.
 Franklin's Autobiography.
 Friends Worth Knowing. Ingersoll.
 History of Our Own Times. McCarthy.
 How I was Educated Papers.
 Life of the Stephensons. Smiles.
 Life of Washington. Irving.
 Lives of Our Presidents. Thayer.
 Nature Readers, No. 4. Wright.
 Oregon Trail. Parkman.
 Patrick Henry. Tyler.
 Plutarch's Lives.
 Politics for Young Americans. Nordhoff.
 Self Help. Smiles.
 Stories of Olden Times. Johonnot.

Story of Our Continent. Shaler.
 Story of the Moors in Spain. Gilman.
 Stories of the War. Hale.
 Students' Manual. Todd.
 Ten Great Events in History. Johonnot.
 The American Citizen. Dole.
 The Discovery of America. Fiske.
 The First Century of the Republic.
 The First Napoleon. Ropes.
 The Making of New England. Drake.
 The Nine Worlds. Norse Mythology.
 The Spy. Cooper.
 The Two Great Retreats of History.
 The Voyage of the Beagle. Darwin.
 Thrift. Smiles.
 Two Thousand Years Ago. Church.
 Vassar Girls. Champney.
 Washington and His Country. Irving.
 Westward Ho. Kingsley.
 Zigzag Journeys. Butterworth.

PROFESSIONAL BOOKS.

The following is a list of sixty good professional books :—

Annual Reports of Education. Mann.
 Chips from a Teacher's Workshop.
 Klemm.
 Compayre's History of Pedagogy. Payne.
 Compayre's Lectures on Teaching. Payne.
 Compayre's Psychology Applied to Education. Payne.
 Courses and Methods. Prince.
 Cyclopædia of Education. Kiddle and
 Schemm.
 Development Lessons. DeGraff.
 Early and Infant Education. Currie.
 Education. Spencer.
 Educational Reformers. Quick.
 Educational Theories. Browning.
 Emile. Rousseau.
 Essentials of Method. DeGarmo.
 Ethics for Young People. Everett.
 European Schools. Klemm.
 European Schools. Prince.
 Five Hundred Good Books for the Young.
 Hardy.
 Graduating Systems for Country Schools.
 Wade.
 Habit in Education. Radestock.
 History of Education in the United States.
 Boone.
 History of Education. Painter.
 Lectures on the History of Pedagogy.
 Hallmann.

Lectures on Teaching. Fitch.
 Lectures on the Science and Art of Education. Payne.
 Leonard and Gertrude. Pestalozzi.
 Life and Works of Horace Mann. Mrs.
 Mann.
 Manual of Object Teaching. Calkins.
 Mental Development of the Child. Preyer.
 Methods of Teaching. Swett.
 Mistakes in Teaching. Hughes.
 Normal Methods. Brooks.
 On Teaching. Calderwood.
 Outlines of Psychology. Sully.
 Outline Study of Man. Hopkins.
 Pedagogy for Young Teachers. Hewett.
 Practical Hints for Teachers. Howland.
 Primary Methods. Hallmann.
 Principles of Education. Greenwood.
 Psychology. Baldwin.
 School Devices. Shaw and Donnell.
 School Management. White.
 School Supervision. Pickard.
 School Supervision. Payne.
 Swedish Gymnastics. Posse.
 Systems of Education. Gill.
 Talks on Teaching. Parker.
 The Art of School Management. Baldwin.
 The Art of School Management. Kellogg.
 The Art of Teaching. Ogden.
 The Elements of Pedagogy. White.

The Evolution of Dodd. Smith.
The Moral Instruction of Children. Adler.
Theory and Practice of Teaching. Page.
The Philosophy of Education. Tate.
The Philosophy of Teaching. Tompkins.

The Principles and Practice of Common School Education. Currie.
The Principles and Practice of Teaching. Johnnot.
The Quincy Methods. Partridge.
The Teacher. Abbott.
The True Order of Studies. Hill.

Respectfully submitted.

A. W. EDSON.

WORCESTER, Dec. 30, 1893.

D.

REPORT OF G. T. FLETCHER,
AGENT OF THE BOARD.

REPORT.

To the Board of Education.

My work during the past year has been mainly in the field assigned to me, comprising the three western counties of the State. Schools have been visited in the towns named below.

BERKSHIRE COUNTY.

Adams,	Hancock,	Otis,
Alford,	Hinsdale,	Pittsfield,
Becket,	Lee,	Richmond,
Cheshire,	Lenox,	Sandisfield,
Clarksburg,	Mount Washington,	Sheffield,
Dalton,	New Ashford,	Stockbridge,
Egremont,	New Marlborough,	Washington,
Great Barrington,	North Adams,	West Stockbridge.

FRANKLIN COUNTY.

Ashfield,	Gill,	Orange,
Bernardston,	Greenfield,	Shelburne,
Charlemont,	Heath,	Sunderland,
Colrain,	Leyden,	Warwick,
Deerfield,	Montague,	Whately.
Erving,	Northfield,	

HAMPSHIRE COUNTY.

Amherst,	Greenwich,	Southampton,
Belchertown,	Hadley,	South Hadley,
Chesterfield,	Hatfield,	Westhampton,
Cummington,	Huntington,	Williamsburg,
Easthampton,	Northampton,	Worthington.
Goshen,	Pelham,	

For special purposes I have visited schools in other counties, and colleges and academies in this section of the State. I have addressed teachers' institutes, associations and clubs, and normal students in other parts of the State by invitation, and have

attended the National, State and district superintendents' meetings. A large part of my work has been in the towns not having superintendents of schools, where aid is greatly needed. Considerable time has been given to the towns having district supervision of schools because assistance can be made most valuable to the schools through the local superintendent. Schools are visited for the purposes of inspection and assistance. Advice to the teacher and class exercises to illustrate methods of instruction have been given as circumstances required. Sanitary conditions, arrangements for heat, light and ventilation have been inspected and the methods of government and instruction carefully noted. Teachers' meetings are held after the schools are visited, for consideration of matters of interest.

MEETINGS.

These have been held for the purpose of presenting to citizens, committees and teachers subjects of importance connected with the public schools. In some instances a school has continued in session a part of the day, so that the work of teachers and children could be witnessed by parents, thereby increasing their interest in the schools. Illustrative lessons have been given to the pupils at these meetings by Mr. Sargent and myself for the benefit of the teachers. Such topics as "The Relation of Citizens to the Schools," "Intelligent Teaching," "Industrial Drawing," "Nature Study" and "Skilled Superintendence" have been presented at evening meetings, which have been well attended by citizens, who manifest much interest in educational progress.

TEACHERS' INSTITUTES.

These were held, for a day each, at Orange, January 6; at Cummington, May 26; at Belchertown, September 18; at Pittsfield, October 13, and at North Adams, November 22. From these towns and others near them there was a good attendance of school committees, superintendents and teachers. Lessons were given at different institutes as follows:—J. W. Dickinson, principles of teaching; A. W. Edson, language; H. T. Bailey, drawing; J. W. McDonald, algebra, geometry, literature; L. W. Sargent, drawing, nature study; G. T. Fletcher, reading, arithmetic, language, orthography; A. C. Boyden, nature study; Miss Elvira Carver, geography; Miss A. E. Hill,

penmanship; Miss A. Roach, number work; E. W. Goodhue, reading, geography; C. P. Hall, arithmetic, language.

All of the meetings were interesting and profitable, affording teachers an opportunity to become acquainted with one another and to receive some instruction in the best methods of teaching.

LAUREL PARK TEACHERS' INSTITUTE.

To render the work of the Board of Education much more effective in this line, plans were formed three years ago for holding an institute one week at some place convenient for teachers from the four western counties. Laurel Park, in Northampton, proves to be such a location. There are ample accommodations for lodgings, board, and the meetings of the institute. An attendance of one hundred at the session of 1891, of one hundred and fifty in 1892, and of two hundred and twenty-five in 1893, shows that the teachers appreciate the locality and the advantages.

The third annual session commenced June 29 and closed July 5. Fifty towns were represented, nearly all of them in the four western counties. The corps of instructors and their subjects were as follows: Secretary J. W. Dickinson, principles of teaching; Superintendent G. I. Aldrich, arithmetic; Agent J. W. Macdonald, algebra and geometry; Agent L. W. Sargent, industrial drawing; Principal J. C. Greenough, school management; Prof. A. C. Boyden, nature study, minerals, plants, animals; Miss Emma C. Fisher, language and grammar; Mrs. Mary R. Davis, history; Mr. W. F. Nichols, geography; Miss Lizzie A. Beggs, primary work, reading, language, number; Miss Anna E. Hill, penmanship; Miss Addie McKechnie, physical culture.

Lecturers: Dr. A. P. Stone, "A Trip to Europe;" Prof. J. H. Pillsbury, stereopticon views, with explanations; Mrs. S. S. Fessenden, "Temperance Instruction;" Agent G. T. Fletcher, manager of the institute.

In the most important branches of common-school work from three to six progressive lessons were given, covering the subjects so fully that the teachers could clearly understand the methods presented. Miss Beggs, principal of the York Street Primary School in Springfield, illustrated her methods of teach-

ing with a class of children. This phase of the work was especially helpful to primary teachers, and they greatly appreciated it. Mr. Boyden illustrated his nature lessons with specimens from the mineral, vegetable and animal kingdoms, and took his classes out for field work. Every lesson and lecture given during the session was very instructive, and it was the unanimous testimony of the instructors that they had never addressed a more earnest body of teachers. Members of school committees and superintendents were present and expressed great appreciation of the work of the institute. All who attended the meetings were of the opinion that the institute should be held in this place annually. The Chautauqua Assembly received a hearty vote of thanks for the free use of its grounds and buildings.

The value of a limited amount of professional training given here will tend to influence the most earnest teachers to take a normal school course, while the immediate results of the instruction appears in better teaching in the schools of this section.

INSTITUTES FOR SCHOOL COMMITTEES AND SUPERINTENDENTS.

These were held in each of the three counties — one at Northampton, September 28 ; one at Pittsfield, October 12, and one at Greenfield, October 16. There was a very good attendance from the different towns of the counties. These institutes were organized to instruct and to aid school officials in their duties and to discuss methods of work.

Secretary Dickinson spoke at all of the meetings upon "Duties of a School Committee: the authority that should be delegated by them to a superintendent." He answered questions pertaining to the school laws and their application. Other subjects and speakers were as follows : —

Northampton, Sept. 28, 1893.

"Qualifications of Superintendents," G. T. Fletcher, Northampton.

"Union of Schools," Capt. David Hill, Easthampton.

"Accounting for School Books," A. F. Pease, Northampton.

"Grading Country Schools," E. W. Goodhue, Williamsburg.

"Work of a School Committee," Rev. A. F. Hinckley, Northampton.

Pittsfield, Oct. 12, 1893.

"System in Ungraded Schools," Earl Ingalls, Cheshire; W. W. Abbott, Sheffield.

"School Superintendence, Purpose, Method," G. T. Fletcher, Northampton.

"Work of School Committees," Judge Tucker, Pittsfield; W. G. Spaulding, West Stockbridge.

"Relation of a Superintendent to the Community," W. P. Beckwith, Adams.

Greenfield, Oct. 16, 1893.

"Selection and Training of Teachers," D. P. Dame, Greenfield.

"Uniting Country Schools," C. P. Hall, Shelburne; Rev. C. H. Watson, Greenfield; Seymour Rockwell, Montague.

"Grading Country Schools," E. W. Goodhue, Williamsburg.

"Object and Means of School Superintendence," G. T. Fletcher, Northampton.

The questions were discussed by committees from the various towns represented.

The meetings were so profitable that permanent organizations were formed to secure meetings annually or oftener.

TEACHERS.

In the three counties more than thirteen hundred different teachers were employed in the public schools last year. Of this large number sixteen per cent. had attended a normal school, ten per cent. completing the course. Two per cent. were college graduates and more than eighty per cent. were "otherwise educated" or uneducated. A large number had received some education in academies and high schools. Some had only the educational advantages of the district school. A few had taken a course in the local training school. Those who attend teachers' institutes, visit schools and read educational literature keep most in touch with the times.

Natural ability, scholarship, training and experience are essential to the highest success in teaching, but with these must be combined devotion to work or success will not be realized. The western counties have some teachers who stand high in the profession; many who rank well; too large a num-

ber unqualified for their work. Improvement from year to year is evident. With the opportunities now afforded for culture and training no teacher has a reasonable excuse for poor preparation. When school committees demand higher qualifications for teaching, the teachers will secure them and the people will pay for them. Large opportunities and responsibilities devolve upon committees. They should always act as a *body* upon every matter of importance; otherwise their doings have no legal force.

SUBJECTS AND METHODS.

We need to be sure that the best things are being done in the best way. The old branches that are fundamental and the new ones that are useful need proper adjustment. While pupils are studying more subjects and are gaining a facility for doing things, are they developing thought power? Whether the school curriculum is to be enriched by engrafting or by pruning is a question requiring careful consideration. Mastery of the essential branches is more to be desired than a superficial knowledge of those not so necessary.

Primary Schools.

The primary classes in the best schools read, write and draw remarkably well, but their ability to spell is not so marked, excepting in those schools where the old way and the new way are both used by teachers who test methods by results. Many teachers have no definite object in view to which their teaching should tend; hence their methods lack breadth, their work continuity. The primary schools show improvement along certain lines. Habits of observation and power of expression are cultivated, but stress is not laid upon the most valuable practice of memorizing important facts that have special bearing upon future work. More attention might be given with profit to the solution of simple problems calling for thought.

Grammar and Rural Schools.

These hold a position of great importance in the school course. In them many pupils will complete their school work; from them some pupils will pass into the high school. Two things are essential in these grades, the acquisition of elementary

knowledge and the development of thought power. Results in these lines are not satisfactory ; harder study and better teaching are needed. An evident weakness in the higher grammar grades is in part due to the lack of male teachers. It appears in reduced attendance of older pupils and in a lower standard of discipline and instruction.

High Schools.

There are ten of these that have a four-years course, and in standing they compare favorably with similar schools under like conditions in other sections of the State. Courses of study and methods of instruction show that progress has been made within a few years. In mathematical studies better text-books and teaching have developed a little more tendency to independent thinking. In some schools natural science is taught by the inductive method, to the manifest advantage of the pupils. The old way is still in vogue in other schools. More attention is given to the study of English, — an important advance. But as yet there is no well-defined plan of work and the instruction is superficial. An improvement in the method of teaching the ancient and modern languages has been made and better results are anticipated. The public school system reaches its upper limit in this grade, and while the best schools have done excellent work in many respects, the pupils generally fail to show the definite knowledge and mental strength to be expected of them.

Arithmetic.

In this subject much more work is done in the primary grades than formerly. The Grube method has been productive of both good and bad results. To the extent that it has led to a larger use of objects and pictures by the children to represent numbers, their combinations and separations, it has been very beneficial ; but the attempt to teach four processes at once has led to confusion in the child's mind.

Number can be increased or diminished ; the first by addition and multiplication, the second by subtraction and division. The operations are twofold, making more or less. The processes to be emphasized, as shown by the later work of the pupil in practical arithmetic, are addition and multiplication.

Number work should commence with the use of **objects**, but it is essential to progress that the pupils soon **learn to** express the facts with abstract numbers. The **processes** of pure arithmetic must be so thoroughly taught below the **grammar** grades as to insure absolute accuracy and a good **degree** of facility.

In applied arithmetic, requiring thought to determine **what** to do and power of expression to tell what has been **done**, the results shown in most of the schools indicate that the **disciplinary** value of arithmetic is not realized.

Language.

Improvement is to be credited to materials and methods in this important subject. Pupils are able to write more readily and correctly than formerly. They learn by observation and practice rather than by principles and rules. The modern text-book is helpful when the teacher understands its purpose, using the plan as suggestive of a method rather than as a text to be strictly followed. The briefer books are generally the better ones. There is much aimless and superficial language work. A judicious use of technical grammar is a necessity in the higher grammar grades, that pupils may understand the principles underlying the right construction of propositions and the correct form of words.

Reading.

This subject is quite well taught in the primary classes of most schools. The new method of instruction is generally adopted, but its fundamental principles and their right application are not always apprehended by teachers; hence the best results possible are not secured.

Reading in the upper grades is poor in nearly all of the schools. Ability to call common words correctly at sight is often wanting, but the glaring fault is lack of expression. Text-books have not furnished the best material for reading. After learning to read the child should read to learn, and he must have reading matter interesting and instructive. The elements of natural science, history, biography and literature should be available for a course of reading. But the inability of pupils to read with fluency and expression in the upper-

grade schools is mainly due to poor teaching. Few teachers conduct a reading exercise with skill and enthusiasm. In teaching reading several objects should be kept in view. Pupils must acquire ability to read fluently and understandingly. They should acquire the habit of reading much and a taste for good reading.

Orthoepy and Orthography.

One has more occasion to pronounce words than to spell them, and much study is necessary to enable a person to do either correctly. Much attention should be given to pronunciation in school, and pupils should be required to consult the dictionary freely.

A teacher says, "The entrance examination at our normal school in spelling is poorer every year." Evidently the practice of oral spelling should be revived, while there should be no less of written spelling. Two things are necessary to secure better results: a judicious selection of words and a better method of teaching. The common words, not difficult to spell, should be learned by children during the first three years of school life. The common difficult words should be thoroughly mastered during the five or six years covering the grammar school period. Spelling should be a daily exercise in the high school. When only the common difficult words that the "average citizen" will have to use in his correspondence are selected it will be seen that the correct spelling of them can be acquired for life in the period of time mentioned by learning to spell only two new words a day. At present words are taken haphazard, and from ten to twenty-five are given for a lesson. There is little intelligent study of the words, and the result is very poor spelling.

Physiology and Temperance Instruction.

The introduction of this subject has had a twofold result. Physiology is now taught in most of the schools, whereas it was taught in very few schools ten years ago. Much of the instruction is very elementary, some of it crude, but it has value, especially in the line of hygiene, its most important feature to children.

As the public schools exist to promote good citizenship,

instruction in the line of temperance is a necessity **when** the prosperity if not the permanence of the state is **imperiled** by intemperance. While instruction in this subject is **based upon** physiological principles, its influence upon children **will be** most effective when illustrated by lessons drawn **from life**, showing the effect of the use of tobacco and **intoxicating** liquors upon individuals and society. Moral instruction **must** have prominence to strengthen the will to resist temptation.

Nature Study.

Lessons have been given to teachers upon this subject **at the** institutes and teachers' meetings, and it has been introduced into a few schools in connection with reading and language exercises. It may become a very interesting and profitable study.

Drawing.

Considerable progress has been made during the year in the introduction of industrial drawing, through the efforts of Mr. Sargent, who reports fully upon the matter.

Manual Training.

The city of Northampton has won a high reputation for proficiency in this line of work, due to the efforts of Rev. F. A. Hinckley, supported by Superintendent Pease and the school committee. The method is largely original with Mr. Hinckley, and his devotion to its success with untiring energy has enabled the teachers and pupils to make remarkable progress in it.

Superintendence.

There has been no increase or diminution of the number of supervision districts during the past year. The reduction of the number of schools required to form a district from thirty to twenty-five should lead to the formation of more unions in the small towns. While the results of the plan are not all that are desired, they fully meet expectations where conditions are favorable. The following results are evident: better teachers are employed; courses of study are arranged; methods of instruction and discipline are improved; school attendance is increased, and the pupils make more substantial progress.

School visitation by the superintendent is systematic and as frequent as possible. Knowing the condition and needs of every school and being an expert in his line of work, he is able to aid and direct the teachers.

The teachers' meetings, under the direction of the superintendent, are productive of great good in unifying the school work. The standard of teaching in the towns having superintendence has been greatly raised within five years, and this skilled oversight is appreciated by the most intelligent citizens, school committees and teachers. Opposition to it is due to prejudice against new things, lack of knowledge of the needs of the schools and the value of superintendence, some possible loss of influence and emolument by committees who do not serve the schools with a "singleness of purpose," and fear that the small expense will be a burden. There is a growing sentiment that the State should make superintendence compulsory, as it is necessary to the highest efficiency of the school system. As the State pays half the salary of the superintendent and gives five hundred dollars to the group of towns forming the union, to pay teachers' salaries, a law making district supervision of schools obligatory would not seem to be unreasonable or oppressive.

The towns of Amherst and Greenfield employ superintendents this year, and Ware voted at its annual meeting in March "to refer the matter of appointing a school superintendent to the school committee, with power to act."

THE HILL TOWNS.

These have lost from ten per cent. to fifty per cent. of their population and valuation within the past twenty-five years. The exodus of young men and women to the cities of Massachusetts and the States of the West has left many of the towns poor in people and property. For what these rural communities have done, and may do, for the Commonwealth they deserve aid in their time of need. The State should coöperate with the towns in securing for their children educational advantages equal to those possessed by wealthy communities. The school population has diminished in a greater ratio than that of the adults because large families of children were common formerly, uncommon now; but the number of schools has not been

reduced in like proportion to the number of the children, and as a result many schools are too small to be interesting and profitable.

Some Statistics.

Last year sixteen towns in three counties had a school attendance of only 1,076 pupils, an average of eleven to a school for seven months in the year. The average cost per pupil for schooling was \$18.33. As some schools had only six pupils and a few only three, the cost per pupil was much greater, being as high as \$60 in the smallest school, while in a school of twenty-five pupils the cost averaged less than \$8. These figures show the expensiveness of educating pupils in small schools, a fact which the people do not seem to realize. The average wages of teachers in these towns was only \$5.50 a week, for which sum good teachers cannot be secured.

MEANS OF IMPROVING RURAL SCHOOLS.

Two things may be regarded as objects to be kept in view: efficiency and economy. Means to secure these ends are: comfortable and convenient school-houses; necessary appliances; no more schools than are needed; intelligent teaching and skilled superintendence. There cannot be efficiency without economy in school matters. A scattered population with small means must endure some privations not felt in thickly settled communities, such as remoteness from post office, stores, church, schools, physicians; but in this Commonwealth every child should have opportunities for a good common-school education. The State must give more pecuniary aid, perhaps by increase of the school fund and distribution of all the income of it among the poorer towns.

Country people should perceive that the conditions under which the old district school was a power in the land no longer exist. Fifty pupils in one school, ranging in age from four years to twenty-one years, many of them mature young men and women, was no uncommon occurrence less than fifty years ago. Last year nine towns had less than fifty pupils as an average attendance in *all* of their schools, and twenty-one towns had less than seventy-five pupils as a total average attendance; but some of these towns had eight schools. It must be evident

to every intelligent, candid person who gives the subject consideration that a less number of schools is a necessity and that only by combination can this result be attained. If a rural school has twenty-five pupils, a competent teacher can be economically employed. In a good community such a school has advantages not possessed by village or city schools. When the attendance is small in schools it seems to be wise to effect in some way a union of schools.

In many towns the schools can be conveniently united by twos or threes, according to size and location. In other towns all the children can be gathered at a center where a graded school can be established. Only in this way can the best primary instruction be secured and a high school become a possibility.

These facts should have great weight with the people. A few good school-houses will be needed, and the cost for repairs and fuel will be reduced. Fewer and better teachers will be employed and the children will receive better instruction, which is the ultimate object to be reached, as only for them do schools exist.

CONVEYANCE.

If schools are united the town must appropriate money for the conveyance of those children who have too long a distance to walk. There are some objections to any plan of union, but they are overbalanced by the advantages. When the people in the rural towns are willing to do all they can to educate their children, the State should supplement these efforts wisely by money and management. Many towns have made a good beginning in this work. The following letter from Seymour Rockwell, Esq., of Montague, for nearly thirty years a member of the school committee of that town, is given here, at my request for the results of his experience : —

MONTAGUE, MASS., Dec. 6, 1893.

MR. G. T. FLETCHER.

DEAR SIR : — For eighteen years we have had the best attendance from the transported children, no more sickness among them and no accidents. The children like the plan exceedingly. We have saved the town at least \$600 a year. All these children now attend school in a fine house at the center, well equipped. The schools are graded. Everybody is converted to the plan. We encountered all

the opposition found anywhere, but we asserted our sensible and legal rights and accomplished the work. I see no way to bring up the country schools but to consolidate them, making them worth seeing; then the people will be more likely to do their duty by visiting them.

Yours truly,

SEYMOUR ROCKWELL.

GENERAL CONDITIONS.

Substantial educational progress has been made during the year. Nearly all of the school-houses are in fair condition, though a few dilapidated structures remain as relics of the past and monuments of long and valuable service, but they will soon disappear. More and better blackboard surface is found and the supply of maps and charts has increased. Text-books and other school supplies are generally furnished in sufficient quantities, but in a few towns books are not supplied promptly. There has been a change in the condition of school out-houses with regard to the comfort and morals of children, but much more needs to be done. Parents are urged to request the school committees to give more attention to all matters pertaining to the welfare of the children.

A larger sum of money from the income of the school fund has enabled committees to lengthen the school terms and to employ better teachers.

District supervision of schools has become more efficient, and as a result the teaching has improved and the attendance of pupils has increased.

FRANKLIN COUNTY TEACHERS' ASSOCIATION.

Through the efforts of Superintendent D. P. Dame of Greenfield, a county association was organized in November. The opening session was well attended and the organization gives promise of usefulness.

THE STATE AND THE SCHOOLS.

Can the Commonwealth do more through the public schools? The courses of study are an accumulation of branches through additions and changes made from time to time to meet new conditions. It may be time to have a reconstruction of the

curriculum based upon educational principles, the wisdom derived from experience and the needs of the age.

Much has been done for the training of teachers and to secure skilled superintendence of schools, but many incompetent teachers are employed and many schools are not under supervision. Many children are not in the schools because truant laws are defective or because they are not enforced.

The poor towns need more money for school purposes, but if the State gives it, means must be adopted to secure its wise expenditure.

In some towns the employment of incompetent teachers is a probability, in others a certainty, unless the standard of qualifications of those allowed to teach in the public schools is raised. Additional normal schools would increase the supply of trained teachers. If there were opportunities for ambitious teachers to obtain State certificates by passing a satisfactory examination, the best teachers would secure them and the best committees would employ such teachers. Scholarship, training and successful experience would receive a recognition not now accorded to them.

G. T. FLETCHER.

NORTHAMPTON, Dec. 30, 1893.



E.

REPORT OF JAMES W. MACDONALD,
AGENT OF THE BOARD.

REPORT.

To the Board of Education.

I have spent the year since my former report in visiting schools, holding teachers' meetings, assisting at teachers' institutes and conventions, responding to calls as far as in my power to address public meetings of various kinds on the subject of education, endeavoring to induce towns to organize districts for the employment of superintendents, and answering the large correspondence that comes to an agent of the Board of Education, for consultation and advice.

I have held five teachers' institutes of my own, besides assisting at many others in all parts of the State. Of the five, one was a high-school teachers' institute at Lawrence, in May; the others, four general institutes at Hamilton, Danvers, Amesbury and Marshfield. Of these a detailed account appears in the secretary's report. I also held two meetings of school committees and superintendents, one at Brockton and one at Salem. Although the places were central, and the programmes contained topics of general interest, yet the attendance showed how difficult it is to get members of school committees to come together to study questions of education or of school management, and emphasizes the importance of skilled supervision.

I have also held a considerable number of local meetings of high-school teachers whom I had visited in their schools, and the interest and spirit of inquiry manifested at these little gatherings suggested an experiment that has succeeded beyond my expectation. In the belief that it would benefit the cause of high-school instruction if teachers engaged in teaching the same branch should meet together and exchange ideas regarding aims and methods, and after consultation with a number of principals, who gave it their hearty approval, I began in October to hold in Boston Saturday conferences of high-school teachers, to which superintendents were also invited. Seven of these

were held during the months of October, November and December, two on English literature, two on rhetoric, two on history and one on Latin.

The plan of these conferences was simply to submit in condensed form certain propositions or queries respecting the subject under consideration, and, after a general discussion, to postpone definite action until some later meeting, in order that the teachers individually might have time to think over the points set forth. I have a feeling that among teachers too many of those who are really awake to the importance of an aim and a method in what they teach wait for some one to give them explicit directions and accept these directions too servilely; that is, do not give personal thought enough to them to make them their own. It is surprising how bad a teacher's work may be when he is imitating a good method. One of the aims, then, of these conferences was to develop thinking and self-reliance, and there is reason to believe that the aim has not been fruitless, though such results for the best part must be a question of time. The pure conference idea was not carried out at all the meetings, as prepared papers were introduced at three of them, for without this it is doubtful whether as yet teachers as a whole have the patience to sit and besiege a subject for themselves.

The conferences on English literature unanimously adopted the following propositions regarding the study of it, and appointed a committee of three to see if some modification of college requirements could not be obtained, so that literature could be taught in accordance with the aims set forth in these propositions:—

Definition—English literature, in the limited sense in which it is used to designate a study in our schools, means that part of the great body of English writings (composed according to approved principles of grammar and rhetoric) in which the chief aims are to appeal to the imagination and emotions, and to furnish intellectual recreation and refreshment.

Purposes of the study:—

1. To cultivate a power to read understandingly; that is, to appreciate the language, to grasp and carry along the train of thought, to perceive the relative value of the successive ideas, and, lastly, to generalize and deduce the central points.

2. To acquaint the pupils with certain principles of criticism, and with standards to guide them in forming their judgments as to what is good in literature.

3. To develop in the pupils a taste and liking for good literature that will abide with them in after years, and lead them to a wholesome employment of their spare time.

Suffice it to say that if the above propositions are thought out and carried out to their legitimate end it will revolutionize nine-tenths of the teaching of English literature in the high schools of the State.

At the last conference on history the appointment of a committee was voted to study *de novo* aims and methods in teaching history, and report a year hence. Among the many who helped make these conferences a success I must mention the names of some who have rendered special service: Secretary J. W. Dickinson, Mr. Chas. C. Ramsay, principal of the B. M. C. Durfee High School, Fall River, and Miss Maud Wood, Chelsea High School, in rhetoric; and Miss Julia N. Cole, Newton High School, Miss Mary E. Wilder, Gloucester High School, and Mary E. Whipple, Worcester English High School, in history, and Mr. Andrew J. George, Newton High School.

The attendance at these conferences was an agreeable surprise. Instead of the twenty or thirty whom I had looked for and had planned to accommodate in a committee room of the State House, the numbers attending compelled us to seek a room elsewhere. Boston University generously granted us the free use of Jacob Sleeper Hall, where all the meetings were held except the first. The attendance ranged from seventy to a hundred and fifty.

I have dwelt upon these conferences for two purposes: First, to call attention to the fact that so many teachers of a single branch of work would come together on a Saturday of their own free will, and many of them long distances, as indicative of the professional zeal that pervades a large and *increasing* number of high-school teachers to know and attain to whatever is best in their lines of instruction. The spirit of inquiry and progress, to which I alluded last year, is still more marked to-day. It is shown not only by the attendance at these Saturday conferences, but by the scene in the high-school section of the

last meeting of the State Teachers' Association, where the room was crammed to overflowing, though the meeting was held in vacation time and the discussion touched but a single topic. To one, however, who is permitted to visit teachers at their work such evidences of a spirit of progress are not needed.

I do not mean that all high-school teachers feel or respond to this spirit, or as yet that even half do.

I know
Too well the picture has another side;
How wearily the grind of toil goes on
Where love is wanting.

That a great many teachers are impervious to any such a spirit is too evident and, considering the way in which appointments are secured, to be expected; but encouraging signs tend to make one patient with a lethargy that is decreasing.

There are two kinds of teachers that, more than any other, block the way of progress. The first is the superficial young lady, who has been through the academy or college, who owes her appointment to family influence or a teachers' bureau, who does not intend to make teaching a life work if she can help it, but only a sort of pastime while waiting for the dearest desire of her heart. Her idea of education is a stuffing of Greek or Latin syntax; and of scholarship, the ability to parse any word in the required Cæsar, Cicero or Virgil without taking breath. Her own education has been by a cramming process. She has no suspicion that there can be any better way, and, ignorant of the meaning of her work and its bearing on the lives of her pupils, she feels no impulse to find one. The other is a class of teachers of both sexes who for the most part got their positions years ago by virtue of residence, who are teaching just as they taught twenty-five or thirty years ago and just as they themselves were taught still earlier, to whom the text-book is the fountain of knowledge and education is memorizing, and who feel no incentive to improve their ways because they hold their positions by a tenure more secure than merit. Again and again I have found such teachers making history, mathematics, English literature or science odious to their pupils, whom they goad on to their lifeless work by a plan of daily marking reci-

tations. Both these classes are alike in this, that they will not put themselves in the way to improve. They disdain teachers' conventions and conferences as things from which they get no good. If I met them at such gatherings, unless on a school day expressly given them for that purpose, I would consider it a marvel. I need not, however, dwell longer on a class of teachers whose numbers I fully believe are declining. The unfortunate thing is that they all count as school teachers, and there is no public or professional recognition of the difference between the studious, thinking, progressive teacher and the unprogressive and inert. I believe that opportunity and provision for such a recognition should be offered, not only as an incentive, but as an act of justice to all teachers who have the true professional spirit. The State Board of Education might be empowered to grant a diploma, perhaps a degree, and as a preparation for it, offer a course of professional study to superintendents and teachers in actual service, extending over, say, two years, and embracing such subjects as history of education, principles of teaching, psychology (practical), logic, aims and methods, hygiene, school laws, etc. The students might be allowed to pursue the studies in any way they chose, but they should be subject to regular examinations, and theses should be required of them. This should be supplemented by regular inspection of their actual school work. Those receiving the diploma should be enrolled in a catalogue published annually and furnished to superintendents and school committees. The standard should be set reasonably high so as to make the diploma worth striving for and an honor to the holder. I believe that such a scheme would be a great incentive to educational study, and would be welcomed by all live teachers. It may be added that there are a great many teachers and superintendents whose services in the cause of education would entitle them now to receive such a recognition, and they might be willing to receive it if it were not made too easy of acquisition. Something of this sort was suggested last year, but nothing came of it.

A second thing suggested by the Saturday conferences was the lack of a room or any provisions whereby the secretary or an agent of the State Board could call together any considerable number of teachers for consultation without defraying the

expense out of his own pocket or soliciting it from those whom he had called together, some of whom have already been to considerable expense to attend. Furthermore, it is well known that Boston is the centre of a large number of educational meetings of various kinds. The data are not at hand for stating how many, but scarcely a week of the school year passes without from one to four such meetings. All of these are of value to the State as supplementing and even supplying normal-school instruction, and some of them of national importance, as the meeting of the Superintendents' Department of the National Educational Association last February. It would be a becoming act and one well repaying the cost if the State Board of Education could facilitate such gatherings by extending to them its hospitality.

It may not be out of place to say in addition that it is highly desirable that the State educational exhibit at the World's Fair should be preserved and added to from year to year with new school work ; that there is a need of a good educational library ; and that there is a great need of a place for keeping on exhibition, where they can be seen and studied, models and drawings of everything pertaining to school equipment, from school architecture and methods of heating and ventilation to the smallest piece of apparatus used in teaching. A resolution looking to the establishment of such an educational headquarters, introduced at the last meeting of the State Teachers' Association, received a hearty endorsement. To building committees and those equipping schools, such a place for comparing and studying what is best and getting scientific and unprejudiced data for their work would be invaluable. To give one illustration : a great deal of attention is now being paid to heating and ventilation, and an increasing number of school buildings are getting pure air ; but are they getting it with a reasonable degree of economy ? There are grounds for much doubt in this respect. In some school-rooms the air seems to be changed oftener than is necessary, and in others, a part changed too often and a part not changed often enough. Where is the fault ? Building committees cannot always be composed of scientists, and they find themselves at the mercy of agents who are certainly not inclined to belittle the merits or extol the defects of their devices. The consequence is that a good

many crude and unscientific imitations of what seems to be good find a market, with, perhaps, a saving in first cost, but constant waste thereafter. It is easy to see how it would be in the interest of economy to have a place where such things could be intelligently investigated.

If the four things mentioned above shall be provided for in some convenient place, it will be an institution creditable to the State and well repaying the cost of establishing it.

It was my intention to make, during the year just passed, a careful study of high-school courses, with a view to reporting upon them at the present time, with such suggestions as I might be able to make. For two reasons I have concluded to withhold such a report. First, because the question proved to be many sided and one that demanded a great deal of careful thought. It bears too many evidences already of snap judgment. Second, because the reports of the committees of ten of the National Educational Associations are soon to appear (they will probably be issued before this is printed), and it seemed best to await the recommendations of those committees. That the reports of these committees will have great weight is justly to be expected, and it is therefore to be hoped that they will be more than mere recommendations. If the recommendations are accompanied, as they probably are, by explicit statements of the legitimate ends to be sought in each study,—that is, what each study can legitimately be held to accomplish in the mental furnishing, and by a complete argument showing that the method advised is in exact accord with pedagogic and psychological principles—in other words, if the reports contain the why as well as the what, they will certainly be a great contribution to the cause of secondary education.

There are evidences that the colleges are every year growing to appreciate more and more the value and influence of high schools as fitting schools, and with a more liberal view on the part of some of the colleges as to what constitutes a fitness to pursue profitably a course of study within their walls, it is to be hoped that the two may draw closer together for their mutual good. It may not, however, be amiss to say in this connection that efforts on the part of the college to influence and direct the course and method of study in the high school

should be made with great caution and deliberation, and all suggestions to that end coming from such a source should be accompanied with the philosophical reason therefor. Such suggestions, as coming from a higher institution, demand and should receive respectful consideration, but there is likely to be given even to hasty recommendations a greater weight than they actually merit. As there is nothing in the standing of a high-school teacher that makes him an authority in primary education, but on the other hand much to disqualify him, so there is nothing in the standing of a college professor that makes him an authority in secondary education, unless he gives to certain educational questions a thorough study that few men have time to give outside of their own field of work. The general influence of the college on the high school has been and is helpful in many ways, but in some special cases directions from this source have worked great harm. A case in point is the study of English literature. For fifteen or twenty years the secondary school had been developing, against various obstacles, a sensible course of study in English literature. A few years ago certain college authorities, finding that students came to them not perfect in the art of writing English, undertook to bring about a reform by instituting what has been known as college requirements in English. By these requirements selected masterpieces of English literature were prescribed to be read, and the examination questions soon made it evident that they must be got up in such a way that students would be ready to reproduce, describe, analyze and criticise them in whole or in part. Many secondary teachers who appreciated the true province and purpose of literature deplored this action; nevertheless it went into effect, and, coming from such a source, was accepted by most teachers as something the wisdom of which they had no right to doubt. So studying the selections with a view to reproducing them became the general practice, not only for the few who were going to college but for the many who were not. The result has been that the study of English literature has been largely diverted from its legitimate use into a profitless memorizing of details to be "written out in the pupil's own language." In other words, masterpieces of our literature are treated as mere reservoirs from which pupils draw facts to re-write, spoiling both

the thought of the author and their own natural style of expression. One of the most prominent and highly esteemed teachers of the State justly said of the plan that "it was the worst that human ingenuity could invent." It seems to me to be a plan hastily conceived and adopted without proper deliberation.

First. It ignores the legitimate aim in the study of literature and keeps the pupil's mind in a false attitude towards what he is reading.

Second. It confuses training in the art of composition with the study of literature, though they are two very different things. English composition has no closer connection with English literature than it has with every study that teaches the pupil ideas and calls upon him to express them, as, for example, in good science work.

Third. It does not take into account that no one, and certainly not young people, can re-write thoughts taken directly from one book without falling into a patchy phraseology, partly his own and partly the author's, so that the practice rather encourages plagiarism than develops an idiomatic use of English.

Fourth. It disregards the principle that to write well the writer must deal with ideas within his own experience or with ideas that he has thoroughly assimilated by long and careful reflection, and with ideas proportioned to age and maturity, which cannot be the case in getting up the college requirements in English.

Fifth. It ignores the fact that a course in English literature, however read, to be profitable must be systematic and progressive, and that this cannot be the case in reading selections taken at random.

It was to be expected that such a scheme must fail, and at the last meeting of the State Teachers' Association Professors Kittredge and Briggs of Harvard, speaking in the high-school section, with a frankness highly creditable to both gentlemen, admitted that it has proved a failure. But it has been more than a failure. It has done an injury to the study of English literature that will require much time to remedy. However, since the present plan is an acknowledged failure, it would seem an easy thing to institute a wiser one. The college can safely leave the whole matter to the secondary schools them-

selves, or if they feel they must have some say in it, it should simply be to require the schools from which they receive students to furnish a satisfactory course in English literature and satisfactory training in English composition, leaving it to the secondary teachers to work out the details for themselves. In measuring results one thing should not be forgotten, that a college or any other examination does not permit conditions favorable to logical thinking or faultless composition.

I shall call attention to but one other particular in which the college influence is working injury in the secondary school. It is the teaching of mathematics, especially of geometry. The general usage at present is a text-book containing the standard syllabus of connected propositions fully worked out, for the pupil to learn, supplemented by a great mass of what are called "originals," which the pupils are supposed to prove for themselves. These "originals" are more or less manifest deductions from what the pupil has memorized from the syllabus, and while the memory is fresh, comparatively easy. They are not, however, links in any chain of reasoning, but they are disconnected and mostly useless theorems, ending in themselves, and valuable only as a confession on the part of book-makers and teachers that the syllabus learned by rote does not furnish the mental training that it is the function of geometry to furnish. The present practice seems to have sprung from the discovery by the colleges of this lack of results, and the introduction into their examinations of "originals" to test power. It has grown into a covert rivalry between the college and the high school; the one trying to introduce into examinations "originals" that the student has never seen, and the other trying to outflank the college examinations by giving their pupils all the "originals" that can be thought of. The result is a misdirection of study and a sad waste of time. The same waste of time that has been condemned by two such eminent authorities as President Eliot of Harvard and President Capen of Tufts, as going on in the study of arithmetic in the grammar school, is even more chargeable against the study of geometry in the high school. In this contest the college evidently has the advantage, for the number of possible "originals" is infinite, and the introduction of geometry into the grammar school will be

necessary if for nothing else than to give the high school a start in the race. I am heartily in favor of introducing both algebra and geometry into the grammar school as something desirable and meritorious in itself, but if it is only to take the time now wasted in the grammar school on arithmetic and give it to the high school to be wasted on geometry, the change will be hardly worth making.

I would add the following suggestions as to a course in algebra and geometry that would in my opinion give better results than the one now followed:—

I. Algebra twice a week during the eighth year in the grammar school, as follows:—

1. Simple arithmetical problems whose solution is facilitated by the use of x .
2. The use of letters to express quantities, and adding, subtracting, multiplying and dividing positive quantities.
3. Theory of negative quantities and adding, subtracting, multiplying and dividing by them.
4. The parenthesis.
5. Multiplying at sight certain binomial forms.
6. Factoring at sight a few of the simpler cases giving binomial factors.
7. Greatest common divisor and least common multiple of such quantities as can be factored at sight.
8. Solution of simple equations of two unknown quantities.
9. Working arithmetical problems by algebraic formulas.

II. Geometry in the ninth year of grammar school, two hours per week.

1. The study of abstract form.
2. A syllabus of propositions that can be for the most part demonstrated by method of application.
3. Application of these propositions to examples in mensuration, surveying, etc.

NOTE.—The best possible preparations for this course in geometry is a course in geometrical drawing during the two or three previous years.

III. Advanced algebra the first year in the high school.

IV. Geometry the second year in the high school.

1. The study of a syllabus, including all propositions necessary to scientifically open to the student the road to higher mathematics, and little else; the study to be by a method that gives mental training as well as information.

2. Problem work, such as the following:—

- (a) Express in terms of the radius the side of an inscribed equilateral triangle; of an inscribed square; of a regular pentagon, octagon, decagon, etc.
- (b) Express in terms of the radius areas of the same, segments formed by the sides of the same, etc.
- (c) Construct the equation

$$x = \sqrt{ab}; \quad x = \sqrt{a^2 - b^2}; \quad x = a x \sqrt{a^2 - b^2}, \text{ etc.}$$

An excellent field of work.

3. Solid geometry.

V. Use of logarithms (third year if necessary).

VI. Trigonometry, in the use of the sine, cosine, tangent and secant in computing triangles.

Where algebra and geometry cannot be put into the grammar school, solid geometry might be omitted.

A word more about algebra and geometry in the grammar school. I believe that the introduction of algebra into the eighth year and geometry into the ninth year are steps greatly to be desired. These studies should widen the pupil's mathematical horizon, give him a needed mental training, and make him better able to deal with problems even of arithmetic than if his whole time had been given to it alone. All this, however, depends on the teacher and the method.

First. The interest of the pupils in the study must be awakened and held. If the work is allowed to become lifeless drudgery, it will, so far as it does anything, repel pupils from continuing in the high school.

Second. Whatever is taught should be along strictly scientific lines. All puerile and unscientific devices that must afterwards be unlearned should be avoided. Especially there should not be taught under the name of geometry things that are not geometry.

Third. The teacher should be able to teach both algebra and geometry without a slavish dependence on a text-book; he should have the courage to eliminate everything artificial or needless, and the wisdom to know that pupils will learn the meaning of terms better by using them than by set definitions.

After all, the great problem, I fear, will be the teacher. It is surprising how few can put into their teaching enough enthusiasm and ingenuity to make mathematics interesting.

I am happy to report a marked improvement in many schools in the teaching of Latin. The improvement is most noticeable in the English of translations. With the exception of teachers who never leave their own narrow boundaries to learn what is going on in the outside world, considerable care is now given to this phase of the study. The lack as yet is in expression in translating into both Latin and English, but many teachers are carefully working along this line and another year may find several schools leading the way. It is surely time that Latin was taught in such a way as to yield results commensurate with the time given to it and what it costs. Reform in Latin teaching is hampered by four prime causes: the traditions of the past; unqualified teachers; the general lack of an intelligent aim; and college examinations. If all the colleges, in their Latin requirements, would follow the example of Harvard, there would be no longer any excuse for poor methods of teaching on this score, but unfortunately only a few have done so; therefore a great amount of grammar cram is still kept up, and in fact seems to be the only way of teaching Latin that many teachers understand. Again, the high school is dependent on the college for its Latin teachers, and in many of them the language is taught under such bad traditions and in such an aimless way that their students come out worse than poorly equipped, for they are wrongly equipped. Under such circumstances any reform in teaching Latin must be slow. It must, indeed, be carried into the college. I believe that the first year's work should be almost entirely writing Latin, only enough Latin text being given the pupils to serve as models, and in this way they, without learning rules, should be familiarized with the exact value of forms and with all the principal constructions. Drill in reciting paradigms should follow and not precede this work. This is more important than may at first appear. For pupils to recite case or tense forms without associating with each as they give it its exact meaning is of less value than teachers are inclined to think. This is shown by the fact that pupils thoroughly drilled in this way will persistently blunder in using the same words in sentences. From the first lesson stress should be put upon the arrangement in expressing the thought, as well in putting Latin into English as in putting English into Latin. In all

English translations good idiomatic English should be required, and instead of the usual grammar questions all new constructions should be mastered by Latin composition. When Cæsar is begun, as each lesson is read the pupils should be taught to reproduce it as indirect discourse, after some such phrase as *Apud Cæsarem legimus*, or *Cæsar scripsit*, etc. By the time the chapters of Cæsar containing indirect discourse are reached they will present little difficulty. There should be plenty of sight reading, and the pupils' ears should be trained by stories in Latin told by the teacher or one of themselves, throughout the course, after the first two or three months. The ear is really the natural channel for learning a language. The ultimate aim should be to give the pupils the ability to read intelligently at sight ordinary Latin without translating it at all.

J. W. MACDONALD.

Dec. 30, 1893.

F.

INDUSTRIAL DRAWING.

REPORT OF HENRY T. BAILEY,

AGENT OF THE BOARD.



REPORT.

of Education.

he honor to present herewith my sixth annual re-

annual report contained a statement of the condition of instruction in the State, as indicated by statistics gathered in 1898. A period of five years has elapsed, and it now seems to give similar statistics gathered in 1893, that may be made to indicate relatively the present condition of art instruction in Massachusetts.

THE STATE NORMAL ART SCHOOL.

In the past five years this institution has not only maintained a high rank, but has steadily improved. Its present condition is shown by the report of the Board of Visitors in this volume. Its graduates are in demand; not those who merely one year there, but full graduates from one to four years. This demand will increase, for each year requires of a specialist in every line of art instruction, especially in supervision of drawing in the public schools. A supervisor must hereafter have more training than can be obtained in a year at the State Normal Art School or any other; more can be derived from a year's correspondence with a finishing house; more than can be acquired in one session of a summer school. With modelling persistently creeping into the grammar grades, with nature studies requiring more sketching, with manual training demanding practical mechanical drawing, with an enriched grammar course in historic art, the supervisor of the future must be a man of broad view and marked ability, not one having simple patented prescriptions to administer. He must be a man who knows the fundamental principles of psychology

and pedagogy ; one to whom the realms of the natural sciences and of the arts and of history are not altogether undiscovered country ; one who loves children more than favor or place or money ; one who not only “ appreciates art ” but who actually produces artistic work. The State Normal Art School, although cramped for room and lacking the rich collections of art treasures with which it should be supplied by the State, although handicapped by being obliged to receive students who cannot draw, and by losing them before they have completed the required work, has, nevertheless, broad, fundamental and unhampered courses of instruction, and with its able and enthusiastic instructors is better prepared than ever before to furnish the required product.

The new regulation that pupils must complete class A or pass an equivalent examination before entering the public school class is a move in the right direction, but the one year's training in that class will never count for all that it ought until it is backed by sound pedagogical instruction in every other class. Every lesson given in every class should be a model for the inspiration and instruction of those who are one day themselves to instruct others.

THE STATE NORMAL SCHOOLS.

These schools are slowly gaining influence throughout the State. The rule requiring applicants for admission to pass an examination in drawing is having its effect upon delinquent towns. When the graduates of country high schools are rejected because of inability to meet the requirements of so simple an examination as the following, given last September, their native towns conclude that it is about time to comply with the statute : —

ENTRANCE EXAMINATION IN DRAWING, STATE NORMAL SCHOOLS, SEPTEMBER, 1893.

1. With pencil and ruler draw an oblong having the *proportions* of this sheet of paper. Measure the sheet and mark its dimensions on the sketch.
2. Draw accurately, with the ruler, an equilateral triangle having a three-inch base.
3. Make a freehand sketch of a window in the room.

the right half of a sheet of paper make a drawing of a leaf subject; pin the leaf upon the left half of the sheet.

the drawing of a cylinder standing on its base, in front below the level of the eye.

questions seem to be very elementary, but they fairly an average of the five different examinations suggest the five normal drawing teachers. The examinations are rigid each year.

the new course the work during the past year has

It is still far below what it should be. The standards be rapidly raised. New models, casts and books of have been added in each school. The teachers with- tion manifest the true professional spirit. The pupils realize that drawing is a language for daily use in and history, in mathematics and the sciences, and actually learning to draw.

Bridgewater school the entire time of one person is to instruction in drawing. The results amply justify and prove the wisdom of the plan. I believe that as come when a similar course should be pursued in schools. In view of the increasing demand for in the public schools, and of the importance of the a means of developing a quick eye and a cunning of its unsurpassed value as a broad culture study, should no longer be dwarfed by inadequate time or grade of instruction.

is it unwise to employ normal drawing teachers *by* as though they were street laborers. Their entire should be employed, that they may have opportunity not each their own classes, but to visit others and to com- work with that of others, and that they may also the time each week in actually teaching children in the school. Without such personal contact with children soon drift into the theoretical and the visionary.

is it bad policy to value the work required of normal teachers at from four to six hundred dollars per year. supervisors of drawing in the State receive from one to sixteen hundred dollars per year and give equivalence. Equally valuable service should be demanded

in the normal schools. If we wish better teaching in the public schools we must enrich the fountain at its source. Fifteen hundred dollars should be the minimum compensation for teaching drawing in the normal schools, and that being fixed, the State should demand instruction at least equal to the very best in the Commonwealth.

THE FREE EVENING DRAWING SCHOOLS.

The following statistics have been gathered from returns made at the close of the session of 1892-93 : —

Free Evening Drawing Classes. — Session of 1892-93.

	CITIES AND TOWNS HAVING MORE THAN 10,000 POPULATION REQUIRED BY LAW TO MAINTAIN A FREE EVENING DRAWING SCHOOL.	Population. Census of 1890.	Number of Schools.	Number of Weeks in Session.	Number of Evenings per Week.	Total Number of Pupils.	Males.	Females.	Average Age.	Number in Classes.	Number in Mechanical Classes.	Number of Teachers.	Pay of Prin- cipal per Evening.	Pay of Assist- ants per Evening.
1	Boston.	448,477	5	21	3	514	426	88	22	198	316	27*	\$7 50†	\$5 00†
2	Beverly.	10,821	†	-	-	-	-	-	-	-	-	-	-	-
3	Brockton.	27,294	2	16	2	68	54	14	24	18	50	2	5 00†	4 00
4	Brookline.	12,103	1	15	2	25	25	-	(P)	25	25	1	2 50	-
5	Cambridge.	70,028	2	17	3	242	150§	92§	(P)	84	158	10	||	3 00
6	Chelsea.	27,909	1	15	2	90	76	14	19	39	51	2	5 00	2 00
7	Chicopee.	14,050	2	24	4	79	77	2	19	-	79	1	4 25†	-
8	Clinton.	10,424	1	42	1	37	37	-	20	-	37	1	||	-
9	Everett.	11,088	1	-	-	-	-	-	-	-	-	-	-	-
10	Fall River.	74,398	1	16	4	130	122	8	19	81	49	6	5 00	3 50
11	Fitchburg.	22,037	1	25	3	69	56	13	19	32	37	2	4 00	1 50
12	Gloucester.	24,651	†	-	-	-	-	-	-	-	-	-	-	-
13	Haverhill.	27,412	2	20	2‡	47	27	20	(P)	30	17	2	3 50	2 00
14	Holyoke.	35,637	1	20	3	91	88	3	22	-	91	1	5 00	-
15	Hyde Park.	10,193	1	17	2	50	50	-	17	-	50	1	3 00	-
16	Lawrence.	44,654	1	20	4	80	80	-	(P)	-	80	2	||	2 50
17	Lowell.	77,696	2	20	4	511	295	216	(P)	284	227	15	6 00†	3 10†
18	Lynn.	55,727	2	20	2	160	120	40	25	70	90	7	5 00	5 00
19	Malden.	23,031	1	20	2	93	69	24	22	34	59	3	5 00	3 00
20	Medford.	11,079	2	22	2	-	-	-	-	-	-	-	-	-
21	Marlborough.	13,805	†	-	-	-	-	-	-	-	-	-	-	-

• Including two head masters who receive \$10 per evening.

† Average.
‡ Included in salary of supervisor of drawing.

‡ No returns.

¶ No school.

§ Estimated.

Free Evening Drawing Classes. — Session of 1892-93. — Concluded.

CITIES AND TOWNS HAVING MORE THAN 10,000 POPULATION REQUIRED BY LAW TO MAINTAIN A FREE EVENING DRAWING SCHOOL.	Population. Census of 1890.	Number of Schools.	Number of Sessions.	Number of Pupils per Week.	Total Number of Pupils.	Males.	Females.	Average Age.	Number in Freehand Classes.	Number in Mechanical Classes.	Number of Teachers.	Pay of Principal per Evening.	Pay of Assistant per Evening.
22 New Bedford,	40,733	1	20	2	124	56§	68§	(P)	56	68	3	\$4 50	\$2 75†
23 Newburyport,	13,947	1	12	3	49	49	—	(P)	—	—	—	—	—
24 Newton,	24,379	2	21	4	88	80	58	17	72	49	3	5 00	3 00
25 North Adams,	16,074	1	15	2	20	19	1	20	—	16	1	3 00	—
26 Northampton,	14,990	1	10	—	—	—	—	—	—	20	1	—	—
27 Peabody,	10,158	†	—	—	—	—	—	—	—	—	—	—	—
28 Pittsfield,	17,281	†	—	—	—	—	—	—	—	—	—	—	—
29 Quincy,	16,723	1	14	6	86	82	4	—	30	56	1	5 00	—
30 Salem,	30,801	2	19	2½†	146	101	45	(P)	104	42	4	10 00	5 00
31 Somerville,	40,152	1	18	2	96	95	1	17	—	96	3	5 00	3 00
32 Springfield,	44,179	2	21	4½†	342	319	23	21	77	265	8	5 00	3 75†
33 Taunton,	25,448	1	16	2	163	133	30	(P)	77	86	8	4 50†	2 50†
34 Waltham,	18,707	1	24	2	68	39	29	22	34	34	3	5 00	3 50†
35 Weymouth,	18,866	†	—	—	—	—	—	—	—	—	—	—	—
36 Woburn,	13,499	**	—	—	—	—	—	—	—	—	—	—	—
37 Worcester,	84,655	7	17	2	179	163	16	23	45	134	7	5 00†	3 00†
Totals and averages,	1,483,086	46	19½	3—	3,647	2,838	809	21	1,365	2,282	111	\$4 92†	\$3 16†

§ Estimated.

† Average.

‡ No returns.

¶ No school.

** Drawing elective in regular evening school. No class.

|| Included in salary of supervisor of drawing.

it appears that 60 per cent. of the population of the city has access to free evening drawing schools. Springfield has .0077 of the city's population in attendance, Lowell with .0065. A large volume might be made of evidence showing the value of these schools to mechanics and to apprentices who attend even for one session. A comparison of this table with that in the fifty-second report of the Board is given here, for convenience:—

	1887-88.	1892-93.	Gain.
Cities and towns required by law to have a free evening drawing school,	30	37	7
Number of such schools were maintained,	22	27	5
Number of schools,	26	46	20
Number of weeks in session,	19	19½	½
Number of evenings per week,	3	3	—
Number of pupils,	3,550	3,647	97
Number of male pupils,	2,515	2,838	323
Number of female pupils,	1,035	809	—
Number of teachers,	21	21	—
Number in the freehand classes,	1,878	1,365	—
Number in the mechanical classes,	1,672	2,282	610
Number of teachers,	100	111	11
Pay of principals,	\$5 24	\$4 92	—
Pay of assistants,	\$3 10	\$3 16	\$0 06

These figures reveal the fact that, although there has been an increase of twenty in the number of schools, there has been but a small gain in the number of pupils attending, and relative to the schools have not held their own. The average membership in each class in 1887-88 was 136, while in 1892-93 it was 127.9. An increase of 323 in the number of male pupils attending, but against that must be placed a decrease of 226 female pupils. Another surprise is the evident change in sentiment relative to the relative value of freehand and mechanical drawing. There are now 513 pupils less in the freehand classes than there were five years ago, and 610 more in the mechanical classes. The decrease in the number of female pupils but partly accounts for this change.

THE PUBLIC SCHOOLS.

Blanks similar to those sent to every city and town in the State in 1888 were sent out in 1893. The returns are here tabulated side by side for comparison : —

	1888.	1893.	Gain.
Whole number of cities and towns,	351	352	1
Number having drawing in the schools,	181	251	70
Number of cities and towns employing a supervisor or teacher of drawing,	49	90	41
Number of supervisors <i>not</i> using drawing books,	11	50	39

These returns show that of the 352 cities and towns, 251 have drawing in their schools, leaving 101 which do not. But as these 101 towns contain only 7 per cent. of the school population, it follows that 93 per cent. of the school children in Massachusetts receive some instruction in drawing. Local pride may find the following table of interest : —

Table showing Proportion of Pupils receiving Instruction in Drawing in Each County.

Rank.	COUNTY.	Instruction in Drawing.	No Instruction in Drawing.
1	Suffolk,	1.00	.00
2	Bristol, . . . . .	.98	.02
3	Norfolk, . . . . .	.95	.05
4	Middlesex, . . . . .	.94	.06
5	Worcester, . . . . .	.90	.10
6	Essex, . . . . .	.89	.11
7	Franklin, . . . . .	.87	.13
8	Hampden, . . . . .	.86	.14
9	Plymouth, . . . . .	.85	.15
10	Berkshire, . . . . .	.82	.18
11	Hampshire, . . . . .	.79	.21
12	Barnstable, . . . . .	.43	.57
13	Dukes, . . . . .	.30	.70
14	Nantucket, . . . . .	.00	1.00

the returns show that 90 cities and towns employ
ers or teachers of drawing. As these are the larger,
ent. of all pupils in the State have the advantages of
cial instruction.
est results in drawing are invariably secured under
at supervision. The following table shows the relative
of counties :—

*Following Proportion of Pupils under Special Supervision in
Drawing in Each County.*

COUNTY.	Under Supervision in Drawing.	Not Under Supervision in Drawing.
ffolk, . . . . .	.98	.02
mpden, . . . . .	.77	.23
ddlesex, . . . . .	.77	.28
orcester, . . . . .	.75	.25
istol, . . . . .	.70	.30
sex, . . . . .	.64	.36
orfolk, . . . . .	.61	.39
erkshire, . . . . .	.50	.50
ymouth, . . . . .	.44	.56
runklin,. . . . .	.15	.85
ampshire, . . . . .	.13	.87
arnstable, . . . . .	.00	1.00
ukes, . . . . .	.00	1.00
antucket, . . . . .	.00	1.00

lly, the returns show that while five years ago but eleven
employed supervisors who taught drawing without draw-
ks in the hands of pupils, the number has now increased
; that is, the number has more than quadrupled. I
this to be a sign of progress.
ring books for pupils are of doubtful utility considered
theoretical point of view. Practically, they are, and

for some time must be, a necessity. They are indispensable where supervisors are incompetent or where they are hampered and limited by unfavorable conditions, and after the first year or two they must for the present be used in country towns where no supervisors are employed and where teachers cannot teach the subject; but they are a necessary evil at best. A strong supervisor, working under favorable conditions, finds drawing books valuable only for reference. As *books of reference* they are and always will be important, but as reference books they are by no means ideal. A reference book for pupils should contain twice as many illustrations and ten times as much information. The geometric figures enter into the construction of all forms, natural and artificial, and their applications are of absorbing interest when traced through object and ornament, through architecture and painting, through snowflake and crystal, flower and fruit, shell and insect and all higher forms of life. These should be illustrated. Working drawings of cylinders and cubes are but the beginning; they have new meaning when seen as the first types which prefigure the steam cylinder and the railway car, the soldiers' monument and the mausoleum, the Tower of Pisa and the Grand Opera House of Paris. In historic ornament the pupil needs not one example, but a dozen; not mere outlines, but light and shade; not blackness, but color. In pictorial drawing he needs *ideals*. Crude drawings of awkward groups ought to be supplanted by fine reproductions on appropriate paper of such still-life groups as artists draw, of such nature drawings as those of William Hamilton Gibson, of such bits of landscape as Charles Herbert Woodbury sketches, of such architecture as that of Joseph Pennell. Pupils' ideals will always remain low if they never have other illustrations to study than those stamped on rough paper in a speculative drawing book. We need models, casts and photographs, and vases and pictures. "But there is no money." We forget that *one-quarter* of the money now expended annually for drawing books would in a few years give us all the art objects we need.

Drawing in the public schools will never be related to the kindergarten, correlated with the other studies, and supplemented by the art gallery and the museum, so long as it is circumscribed and limited by somebody's "system" and so

teachers have nothing to aid them but a teachers' manual which "interprets a system." We need hand-books on geometry, and on mechanical drawing, and on historic ornament and on design, and on pictorial drawing—all written for public school teachers and full of helpful material, richly and profusely illustrated.

It is said that "feeble results" follow the use of blank paper for pupils. It is true. All results from first efforts of pupils are feeble. But the totterings of a baby just attempting to walk *alone* are not pitiful, for they are full of promise. Truly pitiful sight is the flop of a pupil into a helpless mass for the whole period of his growing youth been confronted with a standing stool having the form of a "drawing system," and who is suddenly thrown upon his own resources!

Be confident that each year will find better teaching of drawing in Massachusetts,—more supervisors who *know their work*, and who can train children by means of it,—more who will become master workmen, needing not to be ashamed.

THE YEAR'S WORK.

The work during the past year has been similar in character to that of previous years. It may be summarized as follows:—

Number of visits to cities and towns,	123
Number of different cities and towns visited,	77
Number of schools visited,	185
Number of addresses at teachers' meetings,	113
Number of State institutes attended,	18
Number of visits to normal schools,	12
Number of exhibitions inspected,	10

The totals in some instances fall below those of last year. The time devoted, by permission of the Board, to preparing, arranging and mounting the State exhibit of drawing for the Columbian Exposition and to hanging it in the Massachusetts Building at Chicago. These labors occupied two weeks in Boston and three in Chicago during what is usually the busiest season of the school year.

The visits to different towns have been upon invitation of the superintendent or supervisor of drawing, and have in all cases been most enjoyable.

In the teachers' institutes the instruction has been closely harmonized with that in nature study and geography.

In the normal schools the pupils' sketch-books have been the most interesting feature of the year's work in drawing. Pupils who use them constantly make most rapid progress. I hope to devote more time to the normal schools during the coming year.

Mr. Sargent continues in charge of the work in the four western counties, with most gratifying success. He sends me the following statement of the year's work : —

The past year has shown some progress in the work of drawing among the schools of the four western counties of Massachusetts. According to the report of last year, of one hundred and three towns only thirty-three were attempting systematic work in drawing. This year's returns show forty-six — not a very large increase, but sufficient to afford encouragement.

Three new special teachers of drawing have been employed in the district, making eleven in all. These are located in the cities and larger towns, so that a little over 40 per cent. of the school population come under their supervision. In visits to schools and in teachers' meetings special care has been taken in planning the work so as to show drawing not only as a study by itself but in its relation to all the school work and to lead the pupils to use it as a language, spontaneously and freely. It is when teachers see not only the *possibility* but the *necessity* of using it thus freely that it begins to make its value felt in all the school work. The introduction of nature study and its connection with drawing seems to be one of the most helpful factors in bringing this about. The superintendents and teachers and very many of the committees have been doing much to secure systematic work in drawing and by their coöperation have made my own work very pleasant.

The institute at Laurel Park proved of great value in giving an opportunity by a series of consecutive lessons to present the subject to many of the teachers in fuller and more definite form than had been possible in single teachers' meetings.

From reference to statistics in another part of this report it will be seen that the four western counties are by no means at the foot of the list as regards art instruction. The committees for the most part are ready to provide whatever materials they feel will be really used, and the teachers are willing to carry out suggestions. I see no reason why good work in drawing should not be done even in the ungraded country schools if they have the benefit of an occasional visit to make them feel the value of drawing and that the State has an interest in it.

Summary of work for 1893.

Number of visits to cities and towns,	113
Number of different cities and towns visited,	67
Number of schools visited,	328
Number of addresses to teachers,	116
Number of State institutes attended,	9
Number of visits to normal schools,	5

L. W. SARGENT,

Assistant for the Western Counties.

believe that I voice Mr. Sargent's sentiments as well as when I say that we are in perfect sympathy regarding purposes and functions of drawing as a school study, and desirous to promote the cause in Massachusetts for the children in her public schools. Through the general of the Board we are so conditioned that our one ambition be to help others by every possible means, and that ambition.

Respectfully submitted,

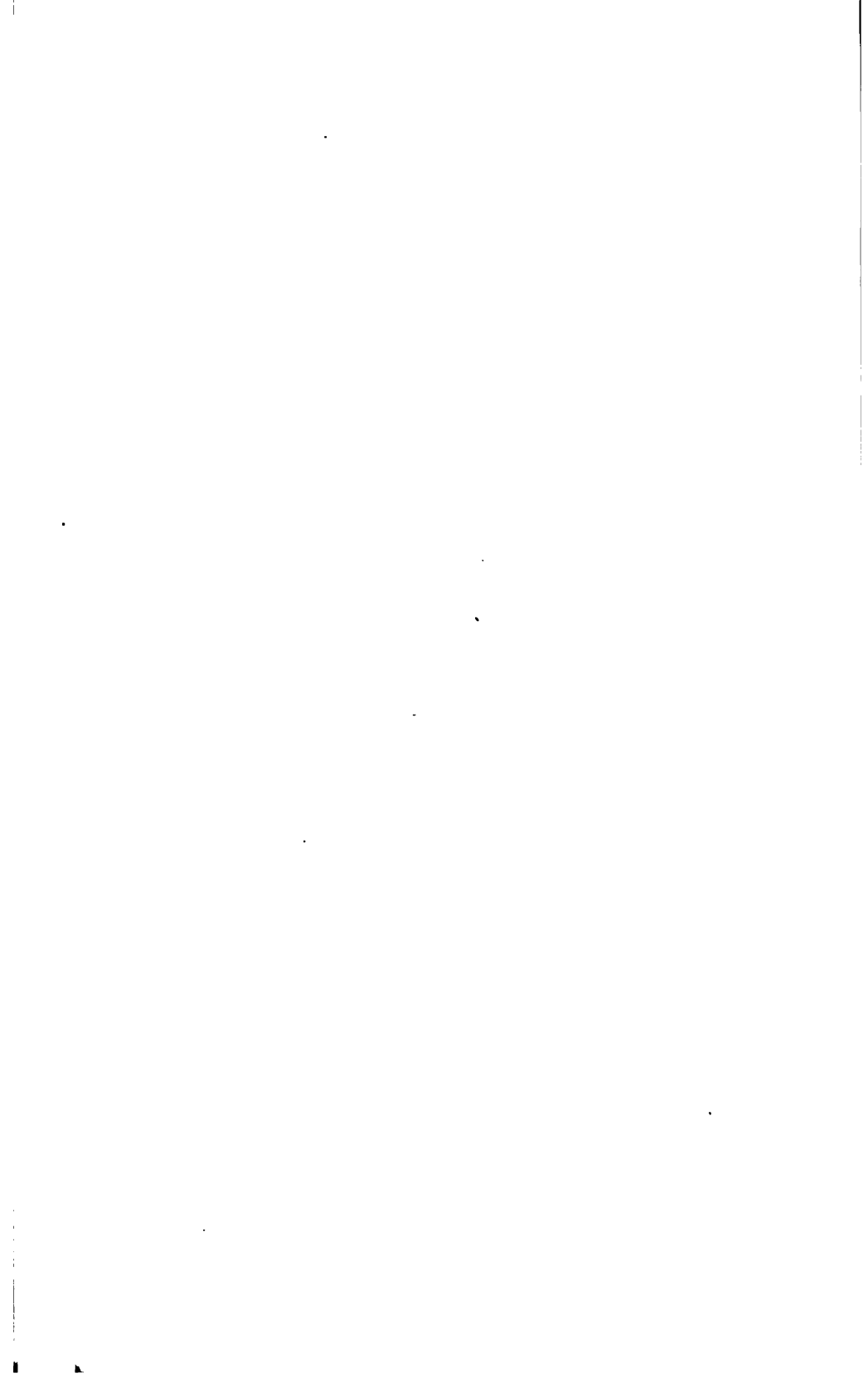
HENRY T. BAILEY.

SCITUATE, MASS., Dec. 30, 1893.

G.

**THE CAMBRIDGE TRAINING SCHOOL FOR
TEACHERS.**

**REPORT OF HERBERT H. BATES,
PRINCIPAL.**



REPORT.

The present training school was established in 1884, and is an outgrowth of the one established in 1870.

In 1869 the superintendent of schools, Mr. Edwin B. Hale, recommended, in his report for that year, the establishment of a training school. He said : —

The fact is apparent that teaching can never assume its proper place until those who are to enter upon its high responsibilities will subject themselves to a thorough professional training, and will also, so long as they may teach, manifest some degree of professional zeal. With us it is felt that the great need is a school where young ladies who have graduated from our high school may be trained in the best methods of instruction and of discipline, while at the same time they may have constant practice in the actual work of the school-room, under an experienced teacher who will be competent to see their faults and faithful enough to expose them.

Mr. Francis Cogswell, the present superintendent of the Cambridge schools, in his report for 1892, writes : —

In accordance with this recommendation, a training school was soon opened. The original plan of this school, as given in the annual report of the school committee for 1870, contemplated the appointment of a principal and an assistant, and it was believed that the young ladies of the training class would themselves be able to conduct the instruction of the primary classes, under the general direction of the assistant, while the principal was to be occupied mainly with the young ladies of the class in training.

It was found, however, after several months of trial, that the plan was defective. The primary classes could not be managed by the young ladies, as was attempted. The pupils understood very quickly the difference between them and permanent teachers, and could not be made to respect their authority. And the frequent changes required to give every one her due proportion of practice in teaching seemed to doom the classes to be instructed by teachers in the most inexperienced stage. As soon as one had acquired a little experience

and control of the room and gave promise of doing well, the time of another would begin, and the round of inexperience would have to be repeated.

This plan was soon changed by the appointment of a permanent teacher for each room, the members of the training class being expected to get experience by giving lessons, from time to time, in the presence of the regular teachers. Daily instruction in methods of teaching was given by the principal. Under this plan the school was continued for twelve years.

Two causes led to its discontinuance. The principal one was the cost; the other was the fact that these young teachers did not get sufficient experience in the management of schools to enable them at once to enter successfully upon the work of teaching.

The present training school (called the Wellington school) differs from the one just described in these respects: (1) In a fuller preparation required for admission; (2) in the character of the work performed; and (3) in the cost of the school to the city. It differs from the other primary and grammar schools mainly in this: All of the classes, or nearly all, are taught by inexperienced teachers, the members of the training class.

In planning the school (I still quote from the report of 1892) the problem to be solved was, how to secure thorough instruction in methods of teaching and experience in the management of schools without adding a dollar to the school expenses. The only way to gain experience in the management of schools is by managing schools, — doing the work of the teacher. While gaining this a person has neither time nor strength for a regular course in professional training. The limitations in the cost of the school made it necessary for the members of the training class to be the teachers. It was therefore decided that a normal-school course should be included in the qualifications required for admission to the class. The cost of the school depends on the number of pupils in attendance. The limitation is, that the cost per pupil shall not exceed the average cost of pupils in the other grammar and primary schools of the city. The school now numbers seven hundred and fifty pupils, and has all of the grades of the primary and of the grammar schools. With this number in attendance, the committee in charge of the school is authorized to expend in salaries, at its discretion, over \$10,000 per annum.

required time of service for the members of the training school, one year, and the money compensation \$200. Graduates who do not at once obtain positions are continued in the school at a salary of \$300. Experienced teachers who have been members of the training class are employed when the needs of teachers needs strengthening. By the rules of the board, the committee on training school is authorized to employ four teachers, at a salary of \$400 per annum, to act as substitutes in the grammar and the primary schools, and, when their services are not so required, to work in the schools to which they shall be assigned by the superintendent, the salary received by each teacher as a substitute to be deducted from her salary. These teachers are usually assigned to the training school, that there may be at that school a sufficient number of teachers to make it practicable for the members of the training class to visit other schools of special excellence.

The school is under the immediate charge of a master, aided by three female assistants. These teachers, or supervisors, have no special class-room, but are responsible for the work in the lower grades, except the eighth and ninth; these are taught by regular teachers.

At the establishment of this school, Cambridge young women who desire to teach, and who have made special preparation for the work, have an opportunity to gain experience under conditions favorable to their own success and without prejudice to the interests of their pupils, their inexperience being offset by the large experience of the master and his assistants.

By a rule of the school committee, no person is eligible for the position of teacher in the schools of Cambridge who is not fully qualified with teachers who have completed the required time of service in the Cambridge training school; that is, no person is eligible who has not had advantages equivalent to a normal-school course, a normal-school course, and a year's experience in teaching.

This year completes the tenth in the history of the training school. During that time there have been connected with it, pupil-teachers, one hundred and forty-one; as substitute teachers, twelve. The master has been a constant factor; but his assistants have changed so that there have been, in all, eight different ones, including the present incumbents.

H.

SCHOOL HYGIENE.

PRESENTED TO THE SECTION ON STATE MEDICINE, AT THE FORTY-FOURTH
ANNUAL MEETING OF THE AMERICAN MEDICAL ASSOCIATION.

By D. F. LINCOLN, M.D.,
GENEVA, N. Y.

REPORT.

Upon the formation of the committee it was thought best to divide the work among the members, assigning a separate department to each. It has been found in practice, however, that the ground has not been fairly covered by this plan. Long and careful special papers have been prepared and published by some of the members, while others, though deeply interested in the work, have not found time to treat their assigned subjects in a manner which would justify them in publishing results. It has, therefore, seemed best to the chairman of the committee to take the responsibility of drawing up a brief but comprehensive statement of principles, covering all the topics, submitting the whole to each member, and presenting the matter to the Section of State Medicine.

It seems desirable, in doing this, to avoid statements which are open to reasonable doubt. It is thought that the most useful result can be gained by a simple, untechnical presentation of facts, omitting discussions, statistics and arguments, with the object of securing the attention of school authorities, teachers, builders and others interested in education.

A. — SITE, DRAINAGE AND SEWERAGE OF SCHOOL BUILDINGS.

1. *Good Light.* — This point has been seriously neglected in many city sites, for financial reasons. The neglect to secure good light has been demonstrated to be an important cause of near-sight in scholars. The desired object can be attained by reserving a tolerably wide strip of land around the school building at the outset, and by municipal regulations restricting the height of neighboring structures. It is suggested that the height of such buildings around school-houses should not exceed one-half the distance between them and the school-house; or, that the line drawn from the foot of the school-house wall to

the upper part of the other house should not form an angle with the horizon exceeding thirty degrees. In small towns the space for playgrounds should be much greater—at least a half acre.

2. *Sunlight.* — If possible, the sun should enter every room in the house at some time in the day, but chiefly out of school hours. The play grounds should be placed, if it can be so arranged, on the sunny side of the house. There should be no trees overshadowing the house, since this causes dampness.

3. *Neighborhood.* — Disturbing influences, as the presence of large bodies of working people, railroads, noisy streets, engine houses, are injurious for various reasons, partly as furnishing undesirable outside associations. Immorality or filth should not be suggested in the surrounding neighborhood. A main city street is commonly to be avoided. The vicinity of offensive trades, as tanneries, rendering establishments, refineries and gas works, is to be avoided.

4. *Soil.* — A damp soil is of itself a serious objection to a site. The case is worse if the site be low, with poor natural drainage and poor opportunity for artificial relief. If it be necessary to build on a springy piece of ground, a trench must be dug around the foundation to a depth below the cellar floor, and far enough from the building to insure the safety of the walls; in this, drain tile with loose joints is laid, discharging away from the building at some lower point. It is useless to cement the cellar wall or floor for the purpose of excluding water, but cement or asphalt forms a good protection against dampness.

School yards in towns should be so paved (not graveled), and underdrained if necessary, as to become dry within an hour after a rain. Dry walks should lead to the out-buildings.

5. *Out-buildings.* — If privies are employed, they should never be within fifty feet of the main building. They should be separate for the sexes, with entirely separate paths of access, and having a board fence between. Dry earth or sifted ashes should be sprinkled over the contents once a day. The entire contents should be removed once a fortnight. The receptacle must be so constructed that such removal can be effected easily and completely; or it should itself be removable with its contents. An iron trough on wheels, or a metal pail, is suggested.

slabs must not be made of iron, and they had better be made of any metal. Impervious material, such as oiled slate, is best. Cement is very objectionable on account of its porosity. Joints between slabs should be perfectly

Water-closets.—When a supply of water is at hand, water-closets are the best arrangement. They may either be a pan or may consist of long troughs corresponding to a number of seats. The pan closet is undesirable, since its inner surface is not freely cleansed by the flow of water. Of the various forms of closet, all those which do not furnish a quick and complete discharge of water, cleansing the bowl thoroughly and emptying all the contents within a few seconds, are to be absolutely rejected. A noisy apparatus is exceedingly objectionable in school-closets which are placed (*e. g.*, for teachers' use) in the vicinity of school-rooms; the noise may proceed either from the pan or the basin.

One of the simplest forms of apparatus for schools is the long trough of cement or iron placed under the range of seats. The trough is covered with a few inches of water, and slopes to an outlet so that by raising a plug the whole contents are quickly discharged into the sewer, after which cleansing is easily accomplished by a hose and broom. The addition of an automatic flushing apparatus acting spontaneously at fixed intervals has been found desirable.

Water-closets and urinals in a school-house must have special attention by forced draught. No mechanical contrivances or automatic ejectors do away with the necessity of personal inspection and thorough cleansing by hand.

Plumbing.—The principles of drainage and sewerage, commonly termed the art of plumbing, are the same for school buildings as for other edifices. It may be stated that pipes and other fixtures ought to be so placed that they can be seen through movable boards, without having recourse to a carpenter, or mason, or plumber to disclose their intricacies. It should further be understood that the whole system is to be under the control and supervision of some responsible and intelligent person, who possesses sufficient plans and drawings of the system and pays frequent attention to its condition.

B. — CONSTRUCTION.

1. *Safety.* — The chief danger is found in old buildings and in those not originally intended for their present use. In such we occasionally find conditions which are nearly sure to cause accidents in case of a panic. The staircase is the important point. It must be very strong, wide and easy; not steep, not sharp-angled, not spiral or with wedge-shaped steps; it should have a platform at the turn. It is safer without a well; if balusters are used they must be high. In large buildings a staircase should be placed at each end. Halls and outer doors must be wide, and all doors open outward. Fire-escapes on the outside are at best an undesirable refuge, and in the ordinary forms may be very dangerous to a crowd of frightened children. Discipline and practice in "fire-drill" or quick orderly march from the school are by far the best safeguards.

2. *The School-room.* — The size of a class-room should be governed by the number of pupils it is intended for. If we assume that fifty can be attended to by the teacher, and that 200 cubic feet of space is allowed per head, a room 24 by 33 by 12½ will answer well. The oblong shape is desirable. If the dimensions here given are exceeded in length, there will be difficulty on the teacher's part in supervision and on the scholars' part in seeing what the teacher may show or write on the board. A greater depth or distance from the windows than twenty-four feet will impair the lighting.

3. *Illumination.* — The lighting of a room for school work requires a much larger allowance of window space than is needed for dwellings. The windows must be square-headed and brought very near the ceiling; there must be no projections (cornices, piazzas, Italian shades) to interfere with the free entrance of light. The total amount of window glass on a liberal allowance may equal one-fifth the floor space; if fully exposed to the sky, less will suffice. Roller shades are of most use when the roller is placed at the foot of the window. Light coming wholly from one side (viz., the left hand), if sufficient in amount, is the best for the eyes; if this plan in any case appears likely to give insufficient lighting, owing to local conditions, windows may be added at the back, possibly also at the right (but in the latter case, at a very high level). Win-

dows in front of the pupils are very injurious to the sight. The wall should be colored of a neutral tint, or with a faint shade of blue or green if liked. The ceiling should be white. It must have no cross beams placed transversely to the light. Blackboards must not be placed between windows.

4. *Miscellaneous.* — The size of recitation rooms must be planned upon the same principle as that of school-rooms, viz., that of allowing 200 cubic feet per scholar.

It is desirable, where possible, to limit the height of a building to two stories above the street, inasmuch as injury not infrequently results from the excessive strain of climbing upstairs.

Accommodations for hanging clothes should be furnished outside of class-rooms, with good provision for ventilation. Enclosed spaces in the halls, open at top and bottom, are suitable.

Cellars or basements must be high, dry, well-lighted and thoroughly wholesome. If there is no cellar, there must be a dry sub-floor space under the whole building.

Dust being a destroyer of pure air and a foe to health, care must be taken to avoid for floors such material as produces dust; if of cement, it must not crumble; if of wood, it must be "filled" so as to be impervious.

C. — VENTILATION AND HEATING.

A very large proportion of schools are so poorly provided with ventilating arrangements that they are practically dependent on open windows. To relieve this unfortunate state of things the lower sash may be raised two inches (less in stormy weather) and a board placed in front to deflect the air upward. The upper sash (which ought always to be movable) may be lowered an inch. These measures are attended with little risk, and give perceptible, though partial, relief.

Perforations in the sash, window pane, or wall also give some relief. Such methods may provide sufficient air for five or six persons in a room, but are entirely inadequate for the supply of a whole class.

The attempt to ventilate school-rooms in cold weather by the windows in the northern United States is either very dangerous to health, or very ineffective, or both. The amount which can

safely be admitted in this way may be one-fifth to one-tenth of what is needed. The existence of ventilating flues or openings does not in itself insure good ventilation. Flues may be too small, or crooked, or partly or wholly stopped up; they may discharge into other rooms or the attic instead of the outer air; they may be unprovided with means for causing the air to rise in them; they may be in many ways badly planned. To enumerate the faults which may be committed would require a treatise.

It ought to be understood by every one concerned in ventilation that large collections of persons require very large amounts of air; that the amount should be calculated and the size of the flues determined before the house is planned; that true economy requires us to consider the system of heating and that of ventilation as interdependent parts of one and the same problem; and that both should form a part of the original architectural design.

The amount of fresh air to be brought into the building for each pupil should be 2,000 cubic feet per hour for younger children (under ten) and 3,000 for high-school pupils. These amounts are calculated from the assumptions that the external "pure" air contains an average of 4 parts of CO_2 in 10,000; and that when the CO_2 has increased under the influence of respiration to the amount of more than 6 in 10,000 the air may be considered "impure." Dilution to the extent mentioned above will keep the air of the room below the point of "impurity" here assumed. The purity required by this standard is such that persons coming fresh from out of doors will not perceive any distinct closeness in the air of the school-room.

As regards the relative requirements at different ages, it may be assumed as proportionate to the different amounts of CO_2 exhaled by people of different ages. In the case of children of eight years, it is about two-thirds as much as in young persons of fifteen.

If a lower standard of supply is taken (say 1,000 to 1,500 cubic feet per hour) there will be a perceptible deficiency of purity, which will have to be made up by an hourly opening of the windows on the occasion of recess.

If the cubic contents of a school-room equal 200 cubic feet per head, the entire air contents of the room will thus be

very four to six minutes. It is found by experience draught caused by the in-rushing air need not be in rooms which allow this amount of space per It is recommended that this be the average allowance

ing air for CO_2 it is important to take samples from of the pupils' heads, avoiding the admixture of the of the condition of the air at that level is satisfactory, ventilation has been gained.

idity with which the air leaves the room may be d by the use of the anemometer. In addition to this desirable to apply the chemical test for comparing the d air with that of different parts of the room; for if y of fresh air is badly distributed, it may happen that arts of the room the currents are comparatively stag- the air will grow more impure than the average of

mal impurities of the expired air (exclusive of CO_2) bly, in part, of a poisonous nature. They, perhaps, otomaines as results of putrefactive decomposition. of infinitely more importance than the CO_2 which is d with them; but they cannot be conveniently made ects of quantitative test. Hence, the CO_2 test is , as indicating with *probability* how much the air has ted by respiration.

ere removal of foul air, whether by stoves, fireplaces ting flues, accomplishes but one-half of the duty of n. The other half consists in supplying a quantity of equal in bulk to that removed. It often happens that al provision is made for this supply; in this case the air is drawn from many sources, — out of doors, the closets, the cellars, and indirectly from many undesir- es. Special ducts, therefore, are requisite for leading outer air in large quantities to the school-room.

large quantities of air as are required can not be safely d without previous warming. But the rapidity with e air is changed is so great that a high temperature is red; as a rule, heating can be effectually performed not hotter than 100°F . If the ventilation is slug- air needs to be made correspondingly hotter in order

to keep the room warm ; but air thus overheated is apt to have an odor which indicates that it has been in some way injured in the process.

The locality from which the air supply is drawn should, of course, be such as to avoid impurities — dust, smoke and bad smells.

A system of ventilation which is working well and sufficiently will produce a near equality of temperature in all parts of the room. The difference between the temperature at the floor level and that at five feet from the floor should not exceed 5° .

A system is efficient in proportion as it maintains its activity under widely varying outside temperatures. Ventilation is needed at 40° as much as at 0° , but it is much harder to keep up a sufficient action in the former case. If the system is based on the draught of heated flues, some additional means for increasing the heat of the flues ought to be available for such mild weather.

The relative humidity of air commonly breathed in our winter climate is low, compared with that in western Europe. It becomes of necessity still lower when warmed. It is not, however, proved that the dryness thus obtained is generally prejudicial to health, either in schools or hospitals, although some individuals appear to require greater moisture. A part, if not the whole, of the unpleasant effect of breathing superheated air is due to the bad ventilation and the excessive temperature.

The thermometer placed at five feet from the floor should mark an average of 65° to 70° in our climate. This is considerably higher than is found desirable in western Europe.

It is to be presumed that the entering air is warmer than that which leaves the room, since it contributes a fraction of its heat for the warming of the walls and windows. If introduced at the upper part of the room, it will therefore fall towards the floor by degrees as it becomes cooled. Hence a level near the floor is a natural one for its exit. The proportion of CO_2 at the upper level of the room is not essentially different, on the average, from that in the lower part, and the level of the orifice of extraction is a matter of indifference as regards that point. If it be our object to get rid of superfluous heat, we should discharge the air from the top ; this,

is not to be considered normal or regular, but only relied when heat is excessive, as (for instance) in even-
ings with artificial light.

possible to apply the above principles to the ventilating
smallest school-house. A single room can be heated
by a upright cylinder stove of ordinary construction, having
an air space enclosed by a jacket of sheet-iron. In
beneath the stove an opening is made, connecting with
to the outer air, through which there will be a rapid
and constant inflow of pure warmed air. The supply flue may
be in two directions, so as to be exposed to different winds,
the point of opening should be guarded with a valve. For
the escape of foul air, openings near the floor are made in the
main flue, which should stand at the far end of the
room. The stove funnel is carried across the room into the
corner and its heat insures an upward draught. Open grates
and ordinary stoves are aids to ventilation, but perform only a
small part of the duty required.

"Direct radiation," or the use of steam heaters in the rooms
warmed, furnishes no supply of fresh air. If ventilation
is provided for, as above described, direct heating is
useless as *supplemental* supply in exceptional cases; but as
its use is destructive of good ventilation.

Useful work can be done either by furnaces or by steam
in the cellar ("indirect" radiation). In both cases it
is highly desirable to provide liberally in respect to the
power of the apparatus.

The question of *economy* in ventilation and the *necessary*
amount of good ventilation much may be said. A great amount
of air is necessarily thrown away in ventilation. It is
estimated that a very perfectly ventilated building, filled with
pupils, expends 50 per cent. more coal than the same build-
ing, open and closed, the temperature being the same. This
waste would be greatly lessened if we could compare the
cost of a well-ventilated, occupied building with one badly
ventilated and occupied, the latter wasting, as it does, a con-
siderable amount of heat by open windows and by the overheating
which often accompanies bad ventilation. It is certain that the
annual expense per pupil of the best ventilation need
not exceed the price of one or two cheap lunches. The effect

of perfect ventilation, where it has been tried, is to increase the pupil's power of work about 50 per cent., which is a direct saving to the town that pays for his schooling. To which must be added the gain in public health (which is not easily to be estimated), since a large percentage of school children are suffering at present a perceptible diminution of vigor from the effects of foul school air.

The employment of automatic regulators for keeping school-rooms at a given temperature is recommended as both economical and healthful. Modern methods often uselessly overheat the cellar in which the furnaces stand. Waste steam from the boilers ought to be converted to the use of heating radiators. A liberal salary to janitors or engineers may insure a more intelligent control of the fuel.

The available methods for compelling air to move in ventilating flues are practically two : first, the ascensive force of heated air ; second, fans driven by steam or electricity for forcing air into the room or drawing it out by "suction." For the former method it is generally desirable to make available the otherwise wasted heat of smoke flues, by causing them to run in the foul-air shaft.

D. — PERSONAL HEALTH.

1. A *minimum* age for entering primary schools may properly be stated as five completed years.

2. The programme of daily work for little children should be widely different from that for older ones. A forenoon session may last three hours ; but no exercise should last continuously more than fifteen or twenty minutes. There should be a constant change of activity, passive attention alternating with active work ; recesses of a few minutes coming very frequently, and recesses of fifteen or twenty minutes at least twice in the session. Adherence to one posture should be required for only a very few minutes at once. Singing should come in more than once during the session. If an afternoon session of two hours be added, the tasks should be lighter than the forenoon tasks. Two hours must intervene between the sessions. The total amount of task work and recitation required in primary schools may equal half the nominal period of the sessions.

3. Young persons of both sexes at periods of rapid bodily growth, and especially at that of sexual development, not infrequently require special relief or rest from school work, which in the case of girls may come at periodical intervals.

As the age increases the power of concentration and continuous work is strengthened. At the age of fourteen, *five* hours of sessions will be equivalent to *four* or *four and a half* hours of work; to which an hour of home study may rightly be added. The usual length of recitations at this age may be about half an hour; long recitations encourage listlessness. For pupils of full growth (eighteen), eight hours of school sessions and home work is an average *maximum*. This does not exclude the possibility of a greater amount of work for limited periods in exceptional cases among advanced pupils in vigorous health. It is presumed in these estimates that the school has two half holidays or one whole holiday weekly.

4. The attention of teachers and parents should be called to the necessity for wholesome and sufficient meals for scholars, especially breakfasts and lunches. The health of many children is supposed to suffer from over-study, when the chief cause of the mischief is neglect to eat a proper breakfast or the substitution of pastry and sweets for plain lunch. The establishment of lunch counters for the sale of hot milk, cocoa and plain food would be very beneficial in the case of many city schools. Lunch is not a superfluity, but a necessity, in cases where long sessions and distant residences keep the pupils away from home five or six hours at a time.

5. The systems of calisthenics in common use — freehand exercises in full class rooms, for five minutes at a time — serve a very useful purpose as a partial relaxation, but are quite inadequate, considered as a means of bodily development. For the latter purpose gymnastic training of a more serious kind is very desirable. Its influence is felt in the development of the mental faculties; it adds force and firmness to the moral nature; it furnishes an important correction of those depressant influences of city life which have a tendency to lower the vitality of millions of our population at the present time. It is hoped that the systematic teaching of gymnastics to all our public school children may soon become an indispensable part of the school course, but it must always be remembered that the more

violent athletic sports tend to heart strain and other disabilities that shorten life.

6. The habit of constipation is often acquired as a result of deprivation of bodily freedom and confinement to a stooping or sitting posture, together with the mental tension of school work and the sense of constraint. In order to avoid this great evil and its frequent attendant, dyspepsia, it is desirable to give recess, with liberty of play out of doors, as often as is convenient. This is especially applicable to young children. Retention of urine now and then occurs under too strict school discipline, and may work serious injury. The friendly oversight of a teacher at recess is desirable, often indispensable.

E. — EYESIGHT.

The eyes are often affected injuriously by school work carried to excess or conducted amid unwholesome surroundings. There is a strong tendency to the production of near-sightedness, which can, to a great extent, be remedied by the avoidance of known causes. Among the direct causes of near-sight are bad light, bad position at work, too protracted work, bad print; and to these must be added, as indirect causes, bad ventilation and heating, poor food, and whatever impairs the vigor of health.

Light in school-rooms should never strike the pupil in the face while at work.

Excess of light is less common than deficiency, but is also harmful. No desk can be more than twenty feet from the windows of an ordinary school-room (supposing the top of the windows to reach the height of about twelve feet from the floor) without impairing the light.

A stooping position and the wearing of tight neck clothing while at work are injurious to the eyes.

To prevent scholars from taking bad positions in writing, it is recommended that children be directed to sit upright, facing the desk squarely, and be taught vertical writing. Also, that desks be slightly inclined, their front edge to overlap the edge of the seat a little, and the height to be such that the forearm easily passes over it. Seats ought to support the back and shoulders in reading, without favoring a tendency to lounge. The foot must rest firmly on the floor or on a foot-rest. The

graded school requires three sizes of desks and seats room.

Habit of holding work too near the eyes strains them and fosters a tendency to near-sight. For the youngest this distance should be not less than 25 centimeters (10 inches); for those of eight to ten years, 33 centimeters (13 inches). Badly proportioned desks and seats, especially if they are too far apart, favor this habit.

Children should have some rest from tasks every half hour. Needlework, embroidery, fine detail in map-drawing or penmanship, and use of fine type must be discouraged.

Defects as far-sight, astigmatism, and affections of the eye are rather common in school children; they may cause headache and other forms of illness. The remedy is the use of suitable glasses, as prescribed by physicians. Teachers may properly be used by teachers to ascertain what children have marked defects of sight.

F. — SANITARY ADMINISTRATION OF SCHOOLS.

Duties comprised under this head may properly be assigned to one man in small places; in large towns a division of labor will be necessary. The officer upon whom the charge is placed—or in all cases, the chief officer—must be a well-trained physician, with a special and practical knowledge of hygiene and science. He should be appointed by the school authorities. He is here designated the medical school officer. It is the duty of this officer to satisfy himself (by personal inspection, or by report) that all children admitted to school are protected, either by successful vaccination or a previous attack of the disease against small-pox. He should also formulate, and have enforced, in conjunction with the State or municipal health officers, regulations to prevent the dissemination of contagious diseases through the schools.

Plans for school buildings, premises and appliances should be submitted for his approval in sanitary points. Personally or by deputy he should examine all buildings and premises, and give reference to the arrangements for ventilation and heating, the lighting of rooms, furniture, water-closets, urinals, plumbing, water supply, safety from fire, and other matters affecting health or safety. He should have the right

of entrance at all times, and should be armed with ample powers.

The medical school officer should give personal instruction to teachers, of a practical kind, embracing : first, an explanation of the existent sanitary regulations, with such physiological reasons and comments as may seem called for ; second, explanation of the sanitary arrangements existing in the schools, their practical management, and so much of the theory as may seem desirable ; third, explanation of the structure and use of the eye, and other parts of the bodily frame, with remarks on food, clothing, recess, study and kindred topics, so far as it seems to him desirable and useful to enter upon such considerations.

The said officer has medical authority in cases of immediate exigency, but is not authorized or expected to bestow further medical care as a part of his official duty. The extent to which personal medical *inspection* of scholars is made and individual medical *advice* is given must vary much with different classes of the population. It is not susceptible of extended adoption at present in America.

I.

REPORT

ON

MASSACHUSETTS PUBLIC SCHOOL EXHIBIT

AT THE

WORLD'S COLUMBIAN EXPOSITION,

CHICAGO, ILL.

By GEO. E. GAY, SUPERINTENDENT.





OFFICE OF MASSACHUSETTS NATURAL HISTORY



REPORT.

To the Board of Education.

In compliance with your request, I have the honor to submit herewith an account of the Massachusetts public school exhibit at the World's Columbian Exposition, with such remarks concerning its character and lessons as seem likely to be of service to the teachers of the Commonwealth.

HISTORY OF THE EXHIBIT.

Preparation for the exhibit was begun by the Massachusetts Board of Managers for the World's Columbian Exposition in the spring of 1892 by the appointment of a committee of seven gentlemen connected with the public schools of the State, whose duty it was to direct the movements necessary to a suitable representation of the Commonwealth in the educational department of the Exposition. The committee consisted of Edwin P. Seaver (chairman), Samuel T. Dutton (secretary), John W. Dickinson, Thomas M. Balliet, William A. Mowry, Clarence E. Meleney and George E. Gay. This committee held frequent meetings during the year, discussed and determined the character of the exhibition which it was best to attempt, issued circulars of direction to school authorities and did all in its power to stimulate enthusiasm for the work in hand.

The first question that claimed the attention of the committee was, what can we exhibit? It was a question very difficult to answer, and its answer depended largely upon the answer to another question, what is the purpose of the exhibit? The answer to this question seemed to be threefold: to present a complete picture of the educational history and standing of the Commonwealth; to show present ideals in education and the best methods of realizing them; to be of the greatest possible assistance, by way of suggestion and example, to all students of educational principles and methods of instruction. It was not deemed wise to attempt any display designed to provoke

comparison with the work of other States or between different municipalities of our own State. Such a display would have been impossible, and valueless if possible.

As the time drew near when the materials to be exhibited must be collected and forwarded to Chicago it became evident that more time must be given to its work than the committee could devote to it, and they recommended the Board of Managers to appoint some one person who could devote his entire time to its interests to take charge of the work.

In accordance with this recommendation the Board appointed me as their agent to collect, display and care for the educational exhibits contributed by the Commonwealth. I entered upon this work Dec. 26, 1892, and devoted a year to the service of the Board.

From the first there had been great uncertainty concerning the amount of space which was to be assigned to education at the Exposition. All other departments were provided for several months before the chief of this department, Dr. Selim H. Peabody, was able to learn what space, if any, was to be given to his display. This uncertainty cooled the ardor with which school officers and teachers at first received the proposition to prepare work for exhibition. In many places work which had been begun was given up in discouragement.

Following is a list of cities and towns from which work was received: Adams, Berlin, Braintree, Brockton, Brookline, Cambridge, Chelsea, Cheshire, Concord, Dalton, Duxbury, Easthampton, Essex, Everett, Fairhaven, Fall River, Freetown, Grafton, Greenfield, Hingham, Holbrook, Holyoke, Lawrence, Malden, Marshfield, Medford, Milton, North Adams, Northborough, Pittsfield, Quincy, Salem, Scituate, Shrewsbury, Somerville, Southborough, Spencer, Springfield, Stow, Sudbury, Waltham, Watertown, West Boylston, Westfield, Weymouth, Winchendon, Worcester, Yarmouth.

Boston furnished more material than any other municipality, probably contributing one-third of all that we displayed. Next to Boston in the amount contributed were Springfield, Brookline, Salem and Quincy.

Although the number of cities and towns represented in the exhibit was small, it probably gave a fair representation of school work in the State, for it included work from municipal-



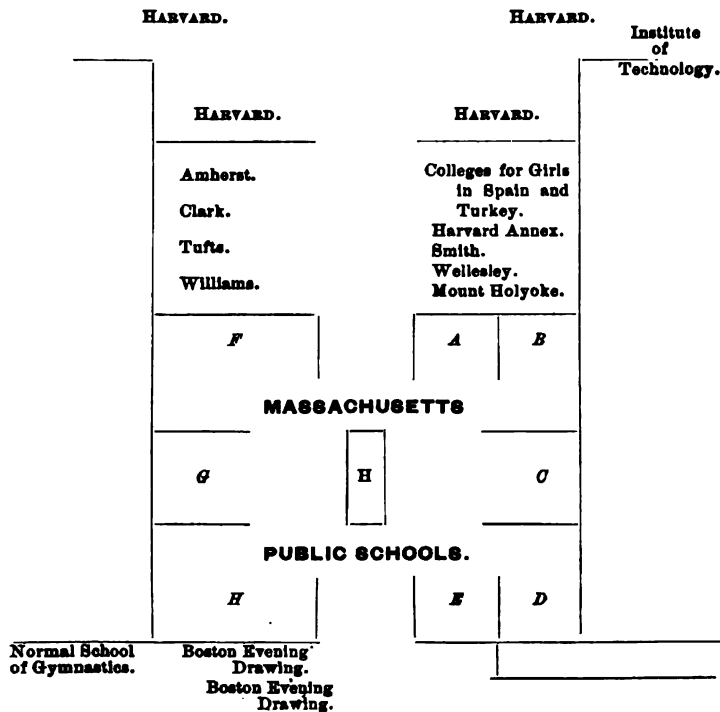
CENTRAL ABLE, MASSACHUSETTS PUBLIC SCHOOL EXHIBIT.



ities of every size and from every kind of public schools ; and while it was not so extensive in amount as was anticipated, it had great variety, and probably served its purpose as well as if it had been more extensive.

LOCATION AND ARRANGEMENT OF THE EXHIBIT.

It was the desire of all those most interested in the educational exhibits to have an entire building devoted to their work. This wish was not gratified. Space was assigned to education in the south gallery of the Manufactures and Liberal Arts Building. The position was admirable, central and easy of access, yet removed from the crowds that thronged the most popular exhibits. In this space Massachusetts was assigned for her entire educational work about five thousand square feet of floor space, in a central and prominent position. About two thousand feet were allotted to the public and normal schools. The following diagram shows the arrangement of the Massachusetts educational exhibits : —



There were eight rooms, or alcoves, as follows : *A*, kindergarten ; *B*, primary schools ; *C*, grammar schools ; *D*, manual training and sewing ; *E*, primary and grammar schools (overflow) ; *F*, high schools ; *G*, Board of Education ; *H*, normal schools. The *H* in the centre signifies a case of casts from the State Normal Art School. A portion of the alcove marked *E* was devoted to school architecture.

In room *A*, tables contained kindergarten gifts and materials. The walls were covered with the work of pupils. But the walls and tables were not sufficient to contain all the material contributed. Portfolios were filled with the overflow, and these were arranged in a case for easy reference and study.

In the primary room the wall display showed the State course in drawing, selections from the Springfield primary course, Mrs. Cutler's Boston course in form and color, specimen pages from the bound volumes, and Superintendent Davis's presentation of his method of teaching reading. A portfolio case contained additional work ; showcases were filled with clay work ; the tables contained pupils' work in number, form, color, language and nature study, with pictures of pupils and teachers engaged in their work.

Room *C* was devoted to the work of grammar schools. Its general arrangement was similar to that of the primary room. Drawing in great variety, methodically arranged, was placed upon the walls ; the bookcases contained the bound volumes of pupils' work ; and the showcases contained a great variety of material used by teachers for purposes of instruction, or made by pupils in the course of their school work. Here were clay work and collections of seeds, minerals, woods and flowers.

In the next alcove, marked *D*, the manual training was massed. A portion of this work overflowed and was placed on the side of the main aisle between *A* and *F*. Sewing also was placed in this alcove. A portion of the sewing was crowded out by lack of space and placed in the high school room.

Room *E* contained drawing crowded out of *C*. Here was shown the complete elementary course in drawing in the city of Boston.

The high school department was in the room marked *F*. The walls gave the State course in high school drawing, with illustrations from many of the cities and towns of the State.

o, was the Boston high school course. A wing-frame centre of the room contained the courses of study in of several cities, and sample pages from bound volumes. high school room also, in the bound volumes, illustrating the work of the State in all branches of secondary n were found.

m *H* was the exhibit of the State normal schools: aphs of buildings and classes, methods of teaching poraphically, courses of study presented in diagrams and apparatus devised by normal school teachers, "home-apparatus made by normal school pupils, and drawing. m *G* was put the exhibit of the State Board of Educa-th pamphlets for distribution, albums of photographs, choicest bound volumes. Two large maps, one indi-ne location of the free public libraries of the State, the owing by a system of dots the number of schools in the d a great amount of other statistics, hung by the broad

work of the free evening drawing schools was shown on ls by the main aisle.

EXHIBIT OF BOARD OF EDUCATION.

mplete set of Reports showed the educational history Commonwealth. These reports are the most complete uable volumes of their kind published in America. ustrate these volumes and to present by graphic methods r a picture as possible of the present condition of the schools of the State, I had prepared a series of maps arts, compiled from the data given in the reports. first map showed the location of teachers' institutes the State for three consecutive years. The principal taught by the map was that in three years practically ire State is reached by these migratory normal schools. much interested in comparing the number and work e institutes with the number and work of institutes n other States. The purpose, work and need of es would seem to be identical in all portions of the y; but there is little uniformity in the method of con-g them, in the character of the work done in them, in

the length of time devoted to them, or in the frequency of their occurrence. Some States employ a permanent force of institute conductors, some employ teachers and superintendents as conductors, and others, like Massachusetts, combine the two systems, apparently with the best results. Some institutes are organized as schools, and the conductors take the part of teachers; some are devoted to lectures; others combine the two methods. Some emphasize principles, others emphasize methods, and others are given up largely to academic work. Some continue for a week; others, for two days. In some cases attendance is voluntary; in others, compulsory. Some are held in school time; others, in vacation. In several States an institute is held in every county every year. In Massachusetts, the State and county conventions and the various teachers' clubs and associations reënforce the work of the institutes with great efficiency and power.

Another map showed the cities and towns that expend public money for transportation of pupils to and from school. The number of municipalities expending money for this purpose is much greater than is generally supposed, and so far as I am able to learn, Massachusetts is the only State in the Union, probably the only community in the world, that adds to free instruction and free school supplies, free transportation of pupils who live at an inconvenient distance from schools. In illustration and explanation of the map, Mr. W. L. Eaton, superintendent of schools in Concord, furnished a pamphlet upon the subject that was widely circulated. I quote a few extracts from this pamphlet that cover facts not generally known:—

Since the year 1869 the cities and towns of Massachusetts have been authorized by law to appropriate and expend money for the conveyance of pupils to and from the public schools. At first this authority was used, in accordance with its apparent purpose, mainly to convey pupils to the high school, as generally there was but one such school in a town. Within a few years, however, many communities have used this authority to increase the educational advantages of the children—constantly decreasing in numbers—who live in the districts at a distance from the centres of population. This has been accomplished by closing many district schools, and transporting, at public expense, their pupils to the neighboring district

school or to the village. When, in 1889, it became apparent that the towns were spending considerable sums of money in this way, the State Board of Education began to report the amounts expended. The following table is compiled from the State Reports:—

	1888-89.	1889-90.	1890-91.	1891-92.
Aggregate amount expended for conveyance of pupils,	\$22,118 38	\$24,146 12	\$30,648 68	\$38,726 07
Annual increment,	—	2,026 74	6,508 56	8,077 39
Number of cities and towns thus expending money,	104	117	145	160

In order to secure full information regarding this important movement, a circular letter of inquiry was sent to 165 cities and towns. Replies have been received from 135, and the answers tabulated. The following summaries are of interest:—

I. The cities and towns that reported an expenditure for 1891-92 of \$38,500 will expend for current year \$48,800.

II. Fifteen towns and cities report conveyance to high school only, at a cost of \$8,650.20 for 462 pupils.

III. It appears that in the remaining 120 towns and cities there were, prior to the beginning of this movement to consolidate, 632 outlying schools. Of this number, 250 have been closed within the past twelve years, and to-day nearly 2,000 pupils are being conveyed to adjacent district schools or to the village schools.

IV. To the question, "Is it the policy of your town ultimately to close all the schools outside the centres of population?" twenty-five answer "Yes," without qualification; forty answer "No;" and nearly all the others reply that their towns are working for that end, or are considering the question, or hope to accomplish such a result.

V. To the request for a brief statement of the reasons that determined the towns to close district schools and transport the pupils to other schools, the replies indicate two distinct purposes — one financial and the other educational. In many of the towns of the State the depopulation of the districts outside the villages has made it cheaper to transport to other schools the few pupils living in the districts than to teach them *in situ*. In other towns the desire to make strong central schools, and the purpose to give all the children of the town the benefit of better teachers, better appliances, and better supervision, have been the dominant motives to determine consolidation.

VI. To the question whether the results have been satisfactory, there is a substantial agreement in the affirmative. The most emphatic expressions of satisfaction come from those towns in which the educa-

tional motives have been the dominant ones. Repeatedly comes the assertion from this latter class of towns that the parents would not return to the old system of isolated schools if it were possible.

The town of Concord is regarded generally and properly as the pioneer in this movement to close all district schools and to convey their pupils to the graded central schools.

The third map prepared to illustrate the reports showed cities and towns under local school supervision. This was a most satisfactory showing. The recent legislation by which the smaller towns receive assistance from the State for the purpose of school supervision, seems destined to bring the schools of the entire Commonwealth under the direction of skilled superintendents.

Another map showed the location of training schools and classes in the State, and a pamphlet prepared by Mr. George A. Walton gave important facts concerning the history, character and usefulness of these schools. The following extracts from Mr. Walton's report are of special interest and importance:—

Table of Training Schools Reported, 1891-92.

	Established.	Graduates' Annual Average.	Graduates in Six Years.	Period of Training.	Grades.	Regular Teachers.	COMPENSATION OF TRAINERS.			
							Substitutes.	First Year.	Second Year.	Third Year.
Adams, . .	-	5	30	1	-	-	-	-	\$7 00	-
Cambridge, . .	1884	15	90	1	-	-	-	\$200 00 per year.		
Fall River, . .	-	12	72	1½	-	-	-	-	-	-
Haverhill, . .	-	14	84	1½	-	-	-	-	-	-
Holyoke, . .	1892	12	12	1½	-	-	\$1 25 per day; \$10 00 per month.			
Lawrence, . .	1899	12	72	1½	I. - VI.	2	1 50	-	\$10 00	\$15 00
Lowell, . .	1888	32	114	1½	I. - IX.	6	1 25	-	10 00	15 00
Lynn, . .	-	12	72	-	-	-	-	-	-	-
New Bedford, . .	1889	14	40	1½	-	2	-	-	3 00	4 00 per w'k.
Newburyport, . .	1889	4	12	1½	-	1	-	-	2 00	3 00
North Adams, . .	-	6	36	-	-	-	-	No pay.		
Pittsfield, . .	-	8	48	-	-	2	-	-	-	-
Springfield, . .	1888	8	32	1	I. - VII.	7	-	No pay.		
Taunton, . .	1889	-	-	1	-	-	-	-	-	-

Table of Training Classes Reported, 1891-92.

	GRADUATES.		Time of Training.	Remarks from Superintendents.
	Average Number per Annum.	Number of, for six Years.		
Chelsea, . . .	17	103	1 year.	Practice limited to four city schools; normal graduates preferred.
Clinton, . . .	5	15	"	Not equal to normal graduates.
Concord, . . .	6	36	"	All urged to attend normal schools.
Dedham, . . .	6	36	"	
Hingham, . . .	8	40	"	Not given school in town until experience is gained elsewhere.
Leominster, . . .	6	36	"	
Malden, . . .	-	-	"	No teacher employed not a normal graduate or person of experience.
Quincy, . . .	30	176	"	
Watertown, . . .	4	24	"	Graduates expected to teach out of town before being employed at home.
Weymouth, . . .	14	84	"	
Woburn, . . .	5	30	"	

TRAINING SCHOOLS.

Some of the leading features of the training school are : —

1. It is incorporated with a city or town graded school covering from four to eight years' work. This school is used as a place for observation and practice.

2. The practice school, or school of observation, employs one or more regular teachers, who conduct the training class. In most training schools "trainers" are relied upon for much of the teaching.

3. The course in the training school includes a study of the principles of teaching and the history of education, with practice in the art.

4. The length of the term of study and practice is fixed, extending from one to two years in the greater number of schools.

5. A new class is admitted at a fixed time; the admissions are annual or semi-annual.

6. The maximum number of trainers is prescribed.

7. Admissions are made by a course of studies previously pursued, or by examination. Most require the equivalent of a four-years course in a high school.

8. All provide for dropping unpromising students from the roll.

9. Most allow some compensation to trainers after the first term.

TRAINING CLASSES.

With slight exceptions, the provisions concerning the training schools apply to training classes. These exceptions are : —

1. The class in training is distributed among the city or town schools, those schools that are in charge of superior teachers being selected for receiving the trainers.
2. The instruction and criticism are given by the superintendent and by the superior and special teachers.
3. In no case that I know of is compensation allowed.

The charts which I had prepared were ten in number, as follows : —

1. Tabulated statement of expenditure and enrolment.
2. Chart showing number of teachers employed and their preparation for teaching.
3. Chart showing wages of teachers.
4. Chart showing attendance in evening schools.
5. Chart showing attendance in high schools.
6. Chart showing expenditures for public schools.
7. Chart showing membership in public schools.
8. Chart showing average attendance in public schools.
9. Tabulated statement of important dates in the history of Massachusetts public schools.
10. Chart showing expense of supervision, text-books and supplies, and conveyance of pupils to and from school.

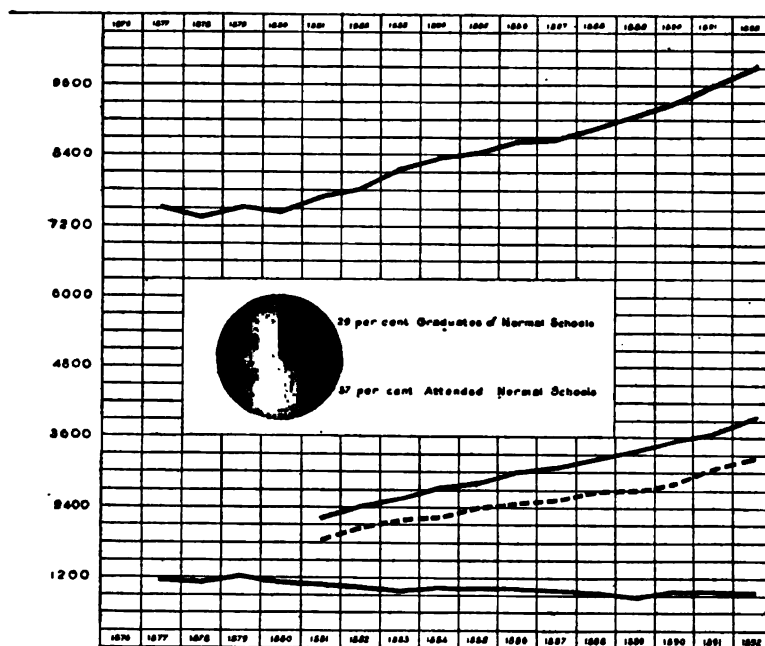
Chart No. 1, containing a tabulated statement of expenditures and enrolment, was substantially the same as appears in the report for 1891-92.

Chart No. 2.

EDUCATIONAL EXHIBIT OF MASSACHUSETTS

NUMBER OF TEACHERS EMPLOYED

Male — Attended Normal Schools—
Female — Graduates Normal Schools---



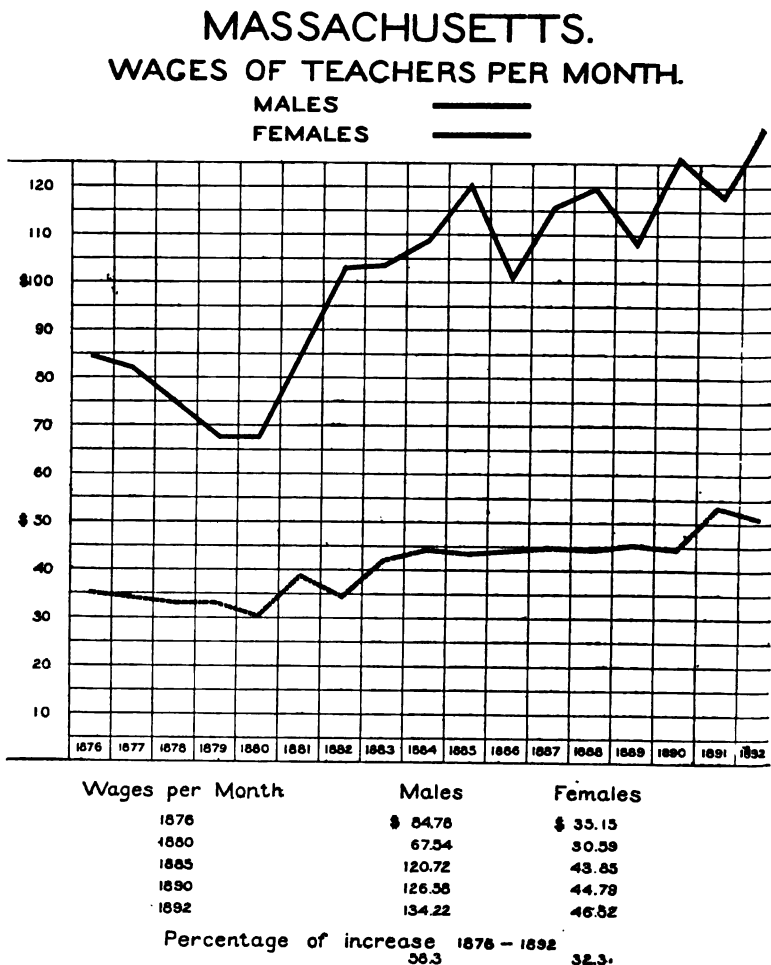
It will be observed that there has been a decrease in male teachers. This is more than compensated by the introduction of experienced superintendents in country towns.

In addition to teachers who have attended normal schools, about 1000 to 1200 have been members of training schools or classes.

Perhaps no feature shows so well the growth of a school system as the increase in the number of teachers. But the increase in the number of teachers alone may be misleading. It may not keep pace with the increase in the number of pupils. The record shown in the chart is very satisfactory, for while the number of pupils in the public schools has increased 17 per cent. during the last decade, the number of teachers has increased 29 per cent. Another gratifying result shown by the chart is the rapid increase in the number of teachers who have had

normal training. While the number of teachers has increased 29 per cent. since 1882, the number of teachers who have attended normal schools has increased 66 per cent. Moreover, the chart fails to report all the teachers who have had professional training, for it does not include graduates of city training schools and classes. Probably this increase in the number of teachers having careful preparation for their work is the most important feature of our recent educational history.

Chart No. 3.



The fact that male teachers in Massachusetts receive nearly three times as high salaries as female teachers is probably

d for only in part by the fact that as a rule men hold the responsible positions. Some communities, it seems, willing to pay salaries in proportion to the skill and wisdom demanded, but for similar work pay less to women than

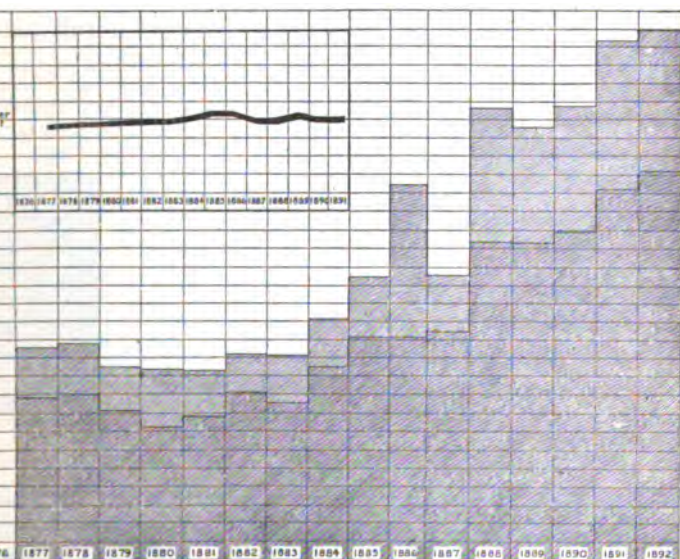
f the most striking features of the chart is the difference between the rate of increase in men's and in women's

While the wages of male teachers have increased 56 per cent. in sixteen years, the wages of female teachers have increased only 32 per cent. The average increase for all is about $34\frac{1}{2}$ per cent. for the same period.

Chart No. 4.

MASSACHUSETTS ATTENDANCE IN EVENING SCHOOLS

Males
Females
Average per cent of attendance



55 towns in 1892 supported evening schools, as compared with 37 in 1883.

The expense of supporting these schools was \$131,557 in 1892, more than double the amount expended ten years previously.

Evening schools, supported as a part of the public school system, seem to be a favorite Massachusetts institution. Their increase in numbers since 1883 is accounted for by several factors: free text-books, the compulsory school law, and a growing estimation of education at its true value. The percentage of attendance is very low, but it is perhaps as high as can be reasonably expected. It is a task beyond the powers of many persons to work at manual labor during the day and at mental labor during the evening.

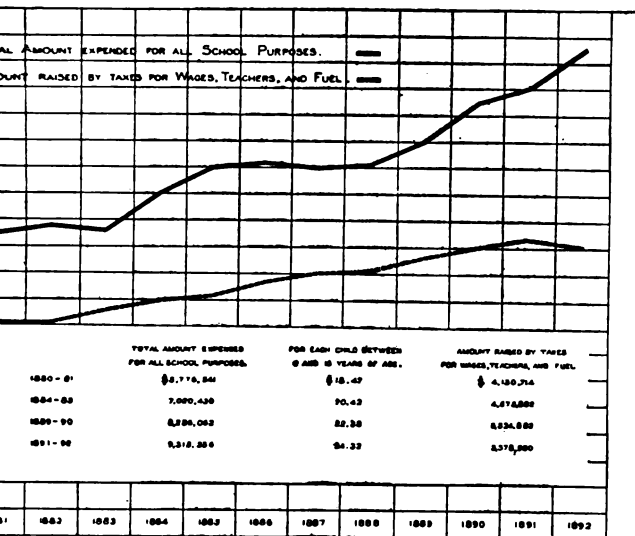
Chart No. 5 showed the recent increase in the number and membership of the high schools of the State. By graphic methods it was shown that during the last decade the number of high schools in the State had increased from 221 to 245 and the membership had increased from 19,256 to 27,482. In 1882 high school pupils numbered 5.8 per cent. of the whole membership of the public schools; in 1892 they formed 7.2 per cent. The increase in membership has been very favorably affected by the free text-book law of 1884, but it would seem so large an increase must have another cause, viz., an improved popular appreciation of the value of secondary education.

Chart No. 6.

MASSACHUSETTS

EXPENDITURES FOR PUBLIC SCHOOLS

1881-1892



Among the Expenditures in 1891-92 were:

- School-Houses; Ordinary Repairs; Permanent Improvements, and new Buildings. \$2,644,863
- Text-books and other Means used in Study and Teaching. 532,330
- Cost of printing Reports. 62,163
- Supervision. 249,899
- Transportation of Pupils. 38,726

The present value of school property as reported by tax assessors is \$28,300,000. In 1849 according to Horace Mann, it was only \$2,232,000.

suggestive facts are shown very clearly by this chart: increase in the total amount of money expended for school purposes, and the remarkable growth in amount expended for school buildings and furnishings. It is stated that the amount given does not include interest on the value of buildings and land used for school purposes; the annual expenditure for this purpose, including interest, is over four million dollars.

Interesting facts shown by the chart are the gradual

increase in the cost per pupil for schooling, and the ratio which the total expenditure is divided among supervision, wages, text-books, and other school purposes.

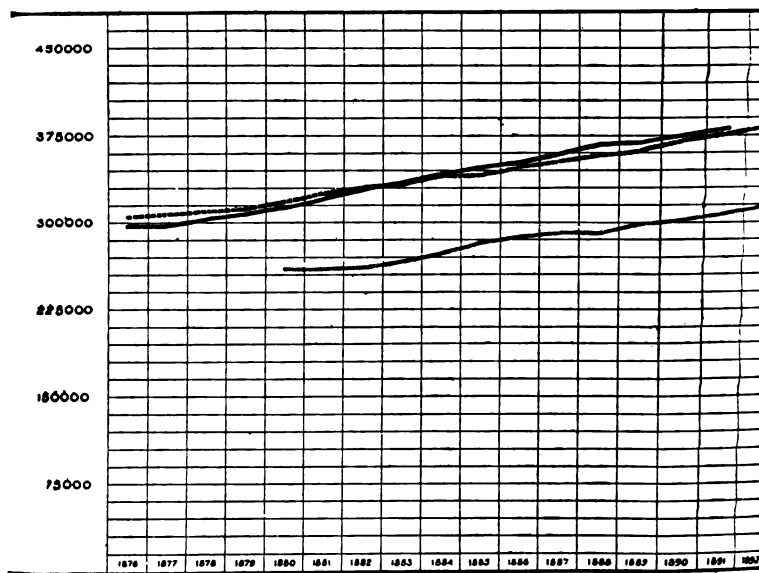
Chart No. 7.

MASSACHUSETTS

Number of Children in the State between 5 and 15 Years of Age —

Number of Children of all Ages Attending the Public Schools —

Average Membership of the Public Schools —



In addition to children attending public schools, there are pupils in parochial schools. These probably number nearly 40,000.

There are also pupils in private schools.

Attendance at school is compulsory between the age of 8 and 14 years; and 15, in towns having manual training.

The "number of children of school age" means very differently in different States. In Massachusetts legal school age is from eight to fourteen years. This seems to be better than from five to twenty-one years, a common classification; but a limit somewhere between the two extremes would seem to be still better.

The chart shows that for a long period of years the number of pupils attending the public schools has remained nearly

with the number of children of school age in the State. There was an excess in the number of pupils; from 1893 there was an excess in the number of children of school age. Since 1890 the excess is again in favor of the school. The change in the year 1883 is accounted for by the opening of a large number of parochial schools at that time. The fact that the enrolment may exceed the number of children of school age, although so many children attend private schools, is fully accounted for in the report for 1893.

Table 8 shows the average attendance, or rather the percentage of attendance, remarkably uniform throughout the period.

Table 8 showed more fully the usual data concerning the number of pupils enrolled.

Table 9 was as follows: —

Important Dates in Massachusetts Educational History.

In elementary schools, reading and writing required. The grammar schools to fit for the university.

In elementary schools, the English language, arithmetic, orthography, and decent behavior added. The grammar schools to teach Latin, Greek and English languages.

In elementary schools, geography added. In high schools, history, algebra, geometry, book-keeping, surveying, rhetoric and logic, besides Latin and Greek.

In elementary schools, physiology and hygiene made optional.

In elementary schools, United States history added, algebra made optional. In high schools, natural philosophy, chemistry, botany, astronomy, geology, civil polity, political economy, intellectual and moral science, and French added.

In elementary schools, vocal music and drawing made optional.

In elementary schools, agriculture made optional.

In elementary schools, drawing required.

In elementary schools, sewing made optional.

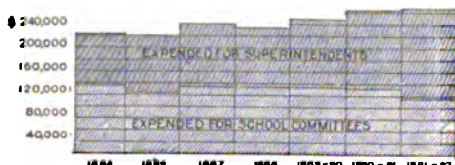
In elementary schools, gymnastics and military drill optional.

In elementary schools, use of hand tools optional.

In all schools, physiology and hygiene required.

Chart No. 10.

MASSACHUSETTS PUBLIC SCHOOLS. EXPENSE OF SUPERVISION 1885 - 1892.



EXPENSE OF SUPERVISION.			
YEAR.	OF SCHOOL COMMITTEES.	OF SUPERINTENDENTS.	TOTAL.
1885	\$114,311	\$87,318	\$202,230
1886	109,412	94,060	200,472
1887	112,726	96,831	218,737
1888	112,772	101,324	214,107
1889-90	112,649	114,993	227,642
1890-91	110,038	133,124	243,162
1891-92	96,491	153,203	249,693

210 Towns in the State employ Superintendents; 142 have none.
The Towns having Superintendents, however, include 85.8 per cent of the children.

EXPENSE OF TEXT-BOOKS AND SUPPLIES. 1882 - 1892.



YEAR.	TOTAL EXPENSE OF BOOKS ETC.	EXPENSE OF BOOKS, ETC. PER PUPIL.
1882	\$227,804.18	\$0.84
1883	253,537.61	0.91
1884	568,700.38	2.08
1885	488,210.44	1.66
1886	424,697.29	1.43
1887	426,735.03	1.49
1888	427,153.36	1.43
1889	488,924.03	1.54
1890-91	494,343.27	1.80
1891-92	532,590.78	1.70

EXPENSE OF CONVEYING CHILDREN.

1888-89	\$22,118
1889-90	24,143
1890-91	30,648
1891-92	38,726

The Law of 1889 provided for town appropriations of money to be expended for conveyance of pupils to and from the public schools. It was first applied on a large scale in Concord about 1880. During the past three or four years the plan has been extensively adopted. The accompanying map shows the towns in which the plan is in operation.

The expense of the supervision of schools in the Commonwealth and the expense of conveying children to and from school have been considered in connection with the maps designed to illustrate these important statistics. The expense of text-books and supplies offers several important lessons. In consequence of the free text-book law of 1883 the expense for this purpose rose from 91 cents per pupil in 1883 to \$2.08 per pupil in 1884. The gradual decrease till 1888 and the subse-

These are explained in part by the fact that since that time new books purchased in 1884 have been rapidly worn out. There is another cause, however, for the increase. The amount of books and supplies furnished to pupils is more than in former years. Satisfactory as the increase is, the amount is no less satisfactory. It is estimated the amount absolutely required to satisfy the law is less for each pupil. Indeed, there are localities in which a sum only less is considered sufficient. It follows, therefore, that school authorities are not satisfied to provide pupils with mere necessities, but they realize the educational value of books, stationery and apparatus of every kind.

The pamphlets already described and quoted, six in number, are prepared for distribution, as follows : —

Historical Sketch of the Massachusetts Public School
by George H. Martin.

Descriptive Sketch of the Massachusetts Public School
by John W. Dickinson.

The Study in the Public Schools of Massachusetts," by
Boyden.

Historical Sketch of the Massachusetts Normal
by Albert G. Boyden.

Course of Instruction in Drawing in the Massachusetts
Schools," by Henry T. Bailey.

Course of the Study of Music in the Massachusetts Public
Schools by James C. Johnson.

The pamphlets met a constant demand for detailed information concerning our schools, and were taken by visitors to all parts of the globe.

The pamphlets specially prepared for the exhibit, a number of the following were distributed : —

Public Statutes of Massachusetts relating to Public Education, with annotations and explanations.

Third Report of the Free Public Library Commission.

Course of Studies for Elementary Schools of Massachusetts.

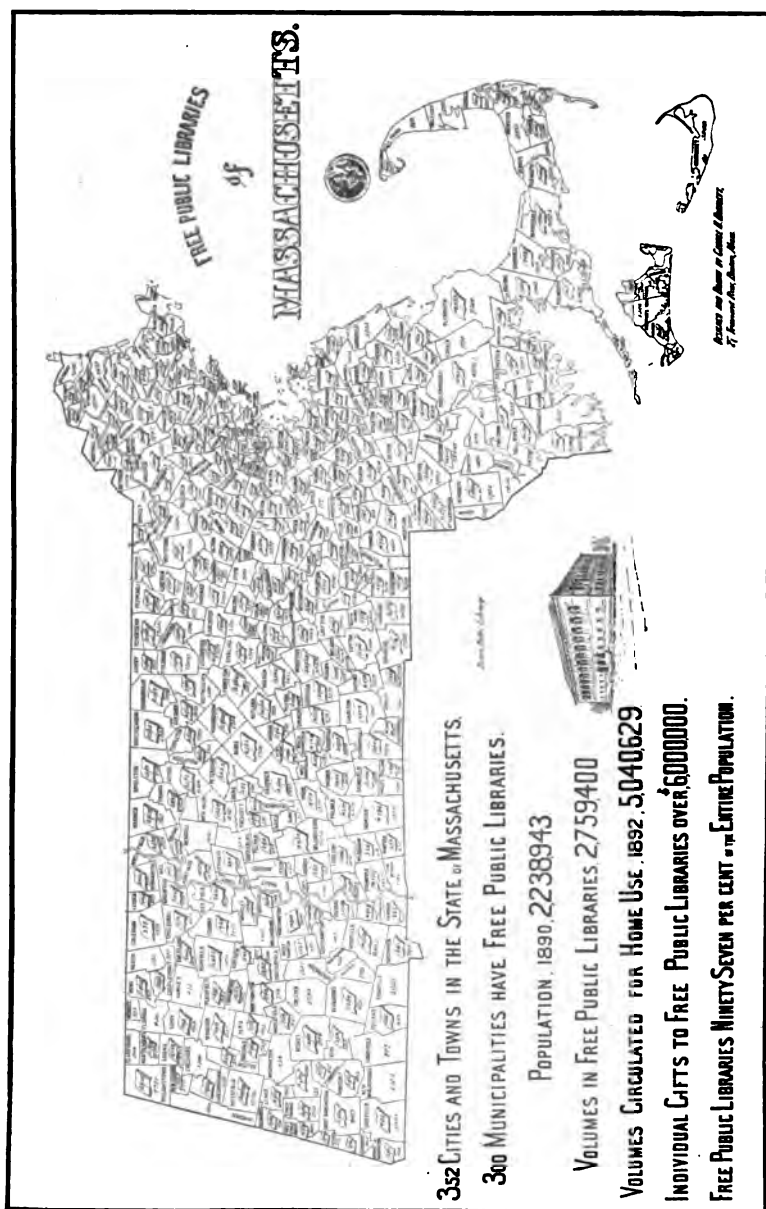
Fifty-sixth Annual Report of the Massachusetts Board of Education.

These four documents were called for very frequently, and my supply of "The Course of Studies" was completely exhausted.

The demand for printed matter was so great that it seems wise to put upon record my estimate of its value in educational exhibitions. The limited time which can be spent by visitors often forbids careful and systematic study of the material shown. If, however, printed descriptions and abstracts can be furnished, they serve to fix in the memory the facts observed and afford material for careful future study. Such matter, therefore, has great value, and should be supplied in as great variety and extent as possible in all educational displays.

A valuable portion of the exhibit of the Board of Education was comprised in two large volumes containing the various administrative forms and blanks used by superintendents and committees throughout the State.

The most striking portion of the exhibit of the Board of Education was probably the two large educational maps, prepared by Mr. George H. Bartlett. These maps were eight feet broad and twelve feet long, and were designed to show at a glance the number and location of free public schools and libraries in the State. They were hung in a very prominent position by the main aisle.



In no other portion of the world are there so many free public libraries as in Massachusetts, and in no other are there so many books accessible to all. The legend "free public





NORMAL SCHOOL SECTION, MASSACHUSETTS PUBLIC SCHOOL EXHIBIT.

libraries for ninety-seven per cent. of the entire population" tells the story of the library map in the briefest possible language.

Large lithographic reproductions of these maps were prepared for distribution.

THE NORMAL SCHOOL EXHIBIT.

The normal schools of Massachusetts have a long and honorable record. The first State normal school established in the United States was opened at Lexington July 3, 1839.

In preparing material for our exhibit I found the principals of the normal schools unwilling to furnish the written work of their pupils, and in consequence the amount of material contributed by the normal schools was small in comparison with the work shown in some of the other States. The material contributed, however, was all so excellent and so suggestive that I very much regretted that I had no more to display.

The following list shows the character and extent of this department : —

Bridgewater. — Framed photographs of school buildings and album of photographs of interiors ; courses of study arranged on a large chart ; apparatus, seven pieces, illustrating outfit for individual pupils in the study of natural science ; manual training, eight pieces, all objects of value to the maker in the prosecution of his school work ; students' chemical outfit ; two portfolios of drawing ; bound volume entitled " Educational Study of Man ; " catalogues.

Framingham. — Framed photographs of buildings and album of photographs of interiors ; catalogues.

Salem. — Framed photographs of buildings and album of photographs of interiors ; an ingenious supporting-frame apparatus ; telegraph key and sounder ; force-pump ; catalogues.

Westfield. — Framed photographs of buildings and album of photographs of interiors ; bound volume containing the teachers' topics in the course of studies ; bound volume describing and illustrating the methods of instruction used in the school ; portfolios containing historical maps made by pupils ; portfolios containing maps designed to illustrate physical geography, made by pupils ; portfolios containing drawings ; catalogues.

Worcester. — Framed photographs of buildings and album of photographs; graphic representation of time given to the various subjects taught in the school; graduation theses; methods of instruction in geometry; device in plant study; confidential reports of pupil teachers; methods of instruction in botany; outdoor observations; apprentices' diaries; portfolios of drawings; lantern for projections; star lantern; catalogues.

Normal Art School. — The Massachusetts Normal Art School made a large and gratifying display, both with the public schools and with art schools. Its public school exhibit showed fully its course of study, illustrated by many examples of pupils' work. This is the only institution of its kind in the country, and its success is a subject of just pride on the part of our citizens.

The second purpose of the educational exhibit of the State was said to be, "To show present ideals in education and the best methods of realizing them." The method adopted to secure this was to show pupils' work in great variety, with statements from teachers showing the relation of the work to courses of study, the methods of instruction used in the subjects illustrated, and the conditions under which the work was done. As far as possible the work, with its explanations, was bound in large octavo volumes. A full description of this work would occupy more space than can be afforded in this report. A record of some of the most prominent features is all that I shall attempt.

KINDERGARTEN WORK.

The kindergarten work shown was sent by Boston, Brookline, Holyoke, Pittsfield, Somerville, Springfield, North Adams, Grafton, Chelsea, Quincy, Marshfield, Duxbury, Scituate and Watertown. The material consisted of paper folding and weaving, sewing, stick-laying, pease work, colored outline pictures, wall decorations, pencil pictures of objects and scenes, and colored representation of simple objects.

The work of Boston, Brookline and Somerville was done by pupils in free public kindergartens; the other work came from primary schools in which kindergarten work forms a portion



GRAMMAR SCHOOL SECTION, MASSACHUSETTS PUBLIC SCHOOL EXHIBIT.

of the regular occupation of the pupils. It would seem from the displays made, both in the Massachusetts exhibit and in the exhibits of other States, that paper-folding, paper-weaving and stick-laying are becoming very common in urban primary schools.

The work of this kind from Springfield was unique in that it was classified as manual training, and was shown as a portion of a complete course in this department of school work. It should be noted that nearly all the Massachusetts paper work was in delicate colors, and calculated to educate the taste of the children. In a few instances I noticed attempts to teach color by the use of colored pencils.

The character of our kindergarten display differed essentially from that of the most of the kindergarten work shown by other States. It was confined to the usual kindergarten work, it was quiet and attractive in color and arrangement, and its mechanical execution was excellent. It seems to be the opinion of Massachusetts kindergartners that their work is based upon well-established principles and has certain well-defined limits. It is greatly to be desired that they continue in the same mind. Children of school age may have better employment than folding gaudy paper in ugly designs or making weak representations of natural objects and scenery with blocks and card-board.

PRIMARY AND GRAMMAR SCHOOL WORK.

Arithmetic.

The work in this subject was quite fully illustrated in the exhibit. Arithmetic has always been the *pièce de résistance* in Massachusetts schools, and seems likely to retain its position; but it should be noted that with the new demands made by other studies arithmetic has lost some of its former hold upon the schools. New methods of teaching the subject are believed to render it more effective, both as a practical study and as a culture study, than ever before.

Mensuration.

Closely connected with arithmetic is the Springfield work in mensuration. Concerning this work the superintendent says:—

The course in mensuration begins the first year of school and extends through all the classes of the primary and grammar grades to the ninth in all. The work is co-ordinated with the freehand and mechanical drawing, and is so planned as to give the pupil a good preparation for the study of geometry, which begins the seventh year.

No rule is used until the pupils have themselves demonstrated the truth of a rule. Hence, no rules are ever arbitrarily given to them, or learned by rote from a book.

During the first six years of school pupils are trained to calculate the area, perimeter, circumference and diameter of geometric surfaces, the surface area and cubic contents of the simpler solids, also the number and direction of their faces, and the number and total length and direction of all their edges. An important feature of this work is the comparison of different geometric forms with one another. This serves the purpose of developing clear conceptions of these forms. During the fifth and sixth years a somewhat careful study of angles is made a prominent feature of the work.

In the seventh year the elements of geometry are introduced, and this work is continued through the eighth and ninth years. Much more time, however, is devoted to the subject the ninth year than the two preceding years.

In this "grammar-school geometry" all the demonstrations are "original," i. e., pupils worked them out themselves and did not have access to text-books on geometry in which they were found. As far as possible the "propositions" were cast into the form of "questions" to make the character of the pupils' work more of the nature of an investigation than a mere proving of truths previously stated to them.

No definitions were "learned" — all definitions really important were formulated by the pupils. No "axioms" or "postulates" were learned. All needless technicalities were omitted.

Mechanical drawing, although taught in a very elementary way in the lower classes, is taught systematically only during the seventh, eighth and ninth years in the grammar schools and in the high school.

Penmanship.

As a large portion of our exhibit consisted of pupils' written exercises, there was little need of special work in writing. Several cities, however, made displays of penmanship that were very creditable, notably Springfield, Holyoke and Boston. Holyoke alone showed ornamental penmanship.

The writing exhibited was all based upon the usual copy-book

standard ; a very small portion was “ freehand ; ” no “ vertical ” writing was to be seen.

English Language.

Our native tongue is used in four distinct ways : it is spoken, it is understood when spoken, it is written, it is read. Hence arise four natural divisions of work in teaching this branch.

It is a matter of some importance to determine the natural order of these processes. The rule is : first, the understanding of a spoken word ; second, the ability to speak the word ; third, the ability to recognize the word when written or printed ; fourth, the ability to write it. As people do not speak in words merely, but in sentences, *sentence* as well as *word* might be used in the analysis.

The first two of these processes are not readily shown in an educational exposition, and, except in an indirect way, in the work called “ language lessons,” very little effort was made to exhibit them. A method of teaching reading was shown by Superintendent Davis of Chelsea, and his method of exhibition was very ingenious and successful. He had prepared photographs of classes at different stages of their progress, engaged in oral reading. Three photographs were devoted to the first year of school, three to the second, and three to the third. Under each photograph was a printed explanation of the step that the photograph illustrated. The whole made a chart of great value that attracted much attention from all visitors. This chart was accompanied with a complementary chart showing methods in teaching correct oral and written expression.

By far the greatest portion of the work in English shown in our exhibit pertained to the writing of English. This work, logically arranged, is classified in the following departments : first, copying ; second, writing from dictation ; third, reproduction in other words of dictated thoughts ; fourth, the expression of the pupil’s thoughts in his own language. An essential portion of the work in the last of these departments consists in learning the principles of correct expression. These principles have been discovered by a careful examination of

the structure of human language, and the characteristics of those English works which have been accepted as models of expression.

No other portion of our exhibit was so full or so satisfactory as the work in English. From the first crude attempts at copying the teacher's written words upon the blackboard to the critical study of Shakespeare and Milton, the work has an excellence that attracted and held the admiration of all who examined it.

Geography.

Geography as commonly taught has probably been the least helpful of all the branches of common-school study. The work shown at the Exposition was doubtless better than the average of work done throughout the State, but it was not the most satisfactory of the work shown.

Besides the papers of pupils there were shown cases of specimens collected by teachers and pupils to illustrate the subject, "production maps" and relief maps made by the pupils. The specimens were good and the cases in which they were placed were well adapted to the purpose, having many small compartments, and being covered with glass tops, easily removed. It has been suggested that for this purpose the "cases" used by printers for small fonts of type are well adapted, being strong, light and cheap. A suitable glass cover can be easily provided. The production maps were good of their kind, but production maps are often so defective as to render them very nearly if not entirely useless. Probably a better form could be devised. Certainly a form that covers Massachusetts with a picture of a codfish and ornaments Louisiana with a bit of sugar-cane conveys more of error than of truth to the mind of the observer.

Relief maps in putty and pulp were shown in large numbers. These were open to the usual criticism of gross exaggeration and general inaccuracy, as well as to the charge that they were often slovenly and inartistic in appearance. Inaccurate maps made upon the molding-board to illustrate the general physical features of a country as described orally have their peculiar value as a method of expressing thought. Maps made for permanent preservation and study, however, have a different pur-

pose, and should be as accurate as it is possible to make them. The outlines should be correct, the elevations should be made to a definite scale, and the coloring should be delicate and attractive. Such maps require much time and labor for their construction, and several pupils may work upon one map. The method used by professional map-makers is probably the easiest as it is the most satisfactory.

United States History.

One of the most gratifying facts connected with recent educational progress in this country is the great improvement that has taken place in methods of teaching history. The work shown in this branch of study by Massachusetts was not as satisfactory as could be wished.

Human Physiology.

It is customary to classify under this head the various facts of anatomy, physiology and hygiene taught in common schools. The title is not a happy one, and to one judging from the work shown at the Exposition the results of the instruction given are unsatisfactory. The simplest rules of health may be taught to young children, doubtless, and the principles of physiology on which they rest are within the comprehension of older pupils; but the attempt to teach anatomy to babes, and to children the functions performed by the most complex organism in the universe, must always prove a failure.

Observation and Nature Study.

The pamphlet on nature study prepared for our exhibit by Mr. Arthur C. Boyden records the movement in the State to promote careful observation of the more common natural objects and phenomena and to disseminate useful information concerning them. In Boston lessons given with this purpose are called observation lessons; in Brookline they are classified as zoölogy, chemistry, etc.; in other places they are called simply nature study. It should be added that in most schools language study and nature study are combined, the facts observed and otherwise learned forming the basis of conversation and written composition.

Civil Government. — Book-keeping.

Little work was shown in civil government. Most of the book-keeping exhibited was received from high schools, a small amount being received from grammar schools.

The Monthly Report Book.

In the monthly report book from Worcester an attempt was made to adapt the monthly record book of European schools to American conditions. It is believed that the system has great value.

WORK OF EVENING SCHOOLS.

The only evening school work shown was sent by the city of Worcester.

HIGH SCHOOL WORK.

The high school work in the exhibit was excellent in every particular. The work shown was suggestive of good methods and desirable results.

TRAINING SCHOOLS.

A large and satisfactory exhibit of work from teachers' training schools was made by several cities.

DRAWING.

The drawing contributed to the exhibit was shown upon walls, in wing-frames and in portfolios. Each method of display had its advantages. To the casual observer the wall display was most pleasing; the portfolios were most convenient for the careful student; the wing-frames probably satisfied the most visitors.

The most prominent portion of the drawing was the work shown by the evening drawing schools of Boston. This occupied the outer wall next to the south aisle and was much admired. Worcester and Waltham evening drawing schools were well represented on either side of the main aisle of the exhibit. The State course in drawing was shown upon the walls of the primary, grammar and high-school sections. It attracted much attention and received many favorable comments from the many artists and teachers of drawing who examined it.





Public schools of nearly all the cities and towns that
to the exhibit were represented by drawings. Much
work in this department was excellent, all was good.
We give especial credit to Boston, Springfield, Quincy,
Worcester and Holyoke, which were most generous
contributions.

SEWING.

was shown by Boston, Somerville, Brookline and
. The exhibit was composed of pupils' work
to show courses of study and of completed garments.
It was complimented as the most complete and instructive
exhibit in the Exposition.

MANUAL TRAINING.

Subject lends itself readily to the purposes of an exhibi-
tion. The World's Fair offered a field for its display such as
has never been seen before. The opportunity thus presented
was welcomed, and in nearly all the educational displays,
American and foreign, manual-training models and exer-
cises formed a very important part.

Exhibitors showed quite completely several courses
for grammar-school grades, and two courses for high-school
grades. Boston presented, in well-arranged exercises, Mr.
Lloyd's system, the "Eliot School Course," and Mr.
Kilbon's system. Springfield showed Mr. Kilbon's system of
tool-work, wood-turning and iron-work, covering
both grammar and high schools. Fall River showed the
manual training in the B. M. C. Durfee High School.
It showed work from the Curwen Manual Training School.
It gave a full illustration of Mr. Schwartz's system of
manual training, which covers both grammar and high-school grades, and
teaching Swedish principles, supplies American models
and lends itself to American methods of instruction.

EXPENSE OF THE EXHIBIT.

The cities expended a little more than \$10,000 on the educa-
tional exhibit; the cities and towns spent about \$5,000 in addi-
tion. The total expense was therefore about \$15,000.

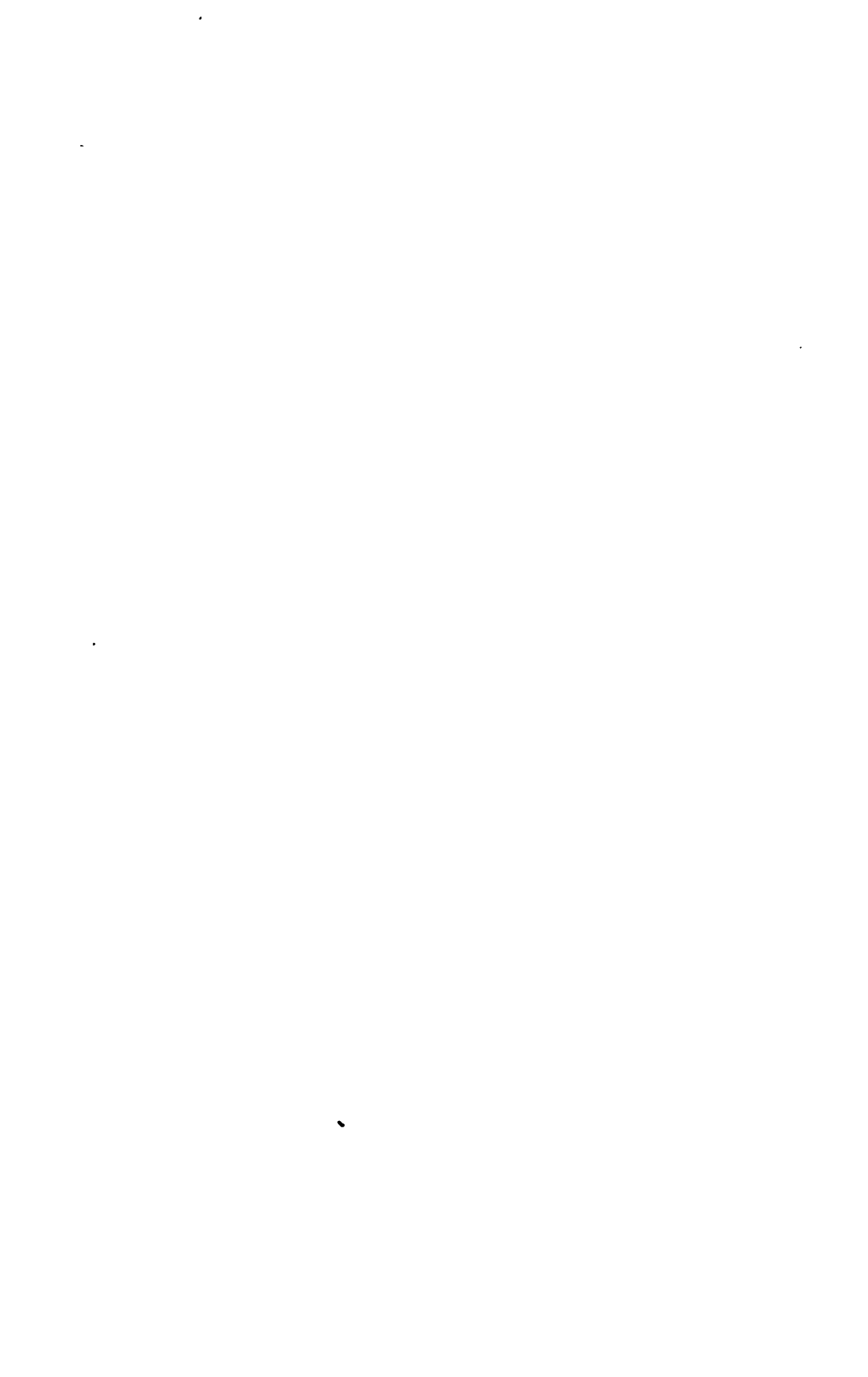
AWARDS.

At the date of this writing, no official announcement of awards in the educational department has been made. A preliminary list has been given to the press, which gives to the Board of Education and to nearly all the cities and towns contributing to the display a medal and diploma.

CONCLUSION.

In conclusion I wish to express my gratitude to the Board of Education for their courtesy and aid in the prosecution of my work.

GEORGE E. GAY.



AN ABSTRACT

OF THE

RETURNS MADE BY THE SCHOOL COMMITTEES
THE SEVERAL TOWNS AND CITIES IN THE
COMMONWEALTH

FOR

THE SCHOOL-YEAR 1892-93.

BARNSTABLE COUNTY.

TOWNS.	Population—U. S. Census, 1890.	Valuation—1892.	No. of Public Schools.	No. of persons in town May 1, 1892, between 5 and 15 years of age.	No. of persons in town May 1, 1892, between 8 and 14 years of age.	No. of different pupils of all ages in the Public Schools during the school-year.	No. attending within the year under 5 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 8 and 14 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The per cent. of attendance based upon the average membership.	No. of teachers required by the Public Schools.
Barnstable,	4,028	\$3,563,150	25	588	359	742	—	113	401	627	574	.91	26
Bourne,	1,442	1,465,575	11	237	203	337	—	26	208	245	220	.89	12
Brewster,	1,003	566,215	6	137	124	158	—	21	124	134	121	.90	6
Chatham,	1,954	865,414	13	275	257	301	1	53	257	297	256	.86	13
Dennis,	2,899	1,216,610	17	436	247	480	2	83	369	410	383	.93	17
Eastham,	602	249,083	8	62	44	75	1	12	44	59	49	.83	8
Falmouth,	2,567	5,113,173	15	378	275	402	2	49	228	362	335	.92	17
Harwich,	2,734	1,083,720	13	408	227	469	—	72	222	369	329	.86	13
Mashpee,	298	179,370	2	65	42	66	—	6	42	65	46	.83	2
Orleans,	1,219	516,355	5	160	94	199	1	25	114	145	131	.90	5
Provincetown,	4,642	2,166,234	17	818	575	836	—	65	588	807	763	.94	22
Sandwich,	1,819	849,800	11	221	153	219	1	39	127	211	186	.88	12
Truro,	919	321,255	6	158	100	175	3	11	100	149	135	.90	6
Wellfleet,	1,291	628,050	5	164	102	212	—	41	126	155	145	.93	5
Yarmouth,	1,760	1,814,660	9	251	175	230	—	40	174	222	206	.92	9
Totals,	29,172	\$20,598,614	158	4,358	2,977	4,931	11	656	3,069	4,247	3,879	.91	168

BERKSHIRE COUNTY.

Adams,	9,213	\$3,459,913	36	1,725	1,080	1,689	12	127	988	1,387	1,316	.94	40
Alford,	297	208,465	2	42	34	56	—	10	—	—	—	—	—

SCHOOL RETURNS.

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Dalton,	2,885	2,253,409	16	504	351	010	1	25	86	95	79	.89	4
Egremont,	845	431,001	3	116	81	121	1	11	86	95	79	.89	6
Florida,	496	172,010	6	80	59	85	1	4	59	81	67	.82	27
Great Barrington,	4,612	8,232,657	25	661	407	841	6	89	510	710	621	.87	5
Hancock,	506	344,600	5	93	58	115	2	9	66	82	71	.86	11
Hinsdale,	1,739	704,297	11	292	244	310	3	13	244	262	259	.98	6
Lanesborough,	1,018	512,235	6	214	136	210	1	15	186	158	131	.82	6
Lee,	3,785	1,797,799	15	708	433	632	15	58	425	603	439	.72	17
Lee,	2,889	2,956,409	13	488	299	584	7	49	317	436	371	.85	14
Lenox,	495	222,220	7	105	87	115	1	15	85	85	74	.87	7
Monterey,	148	80,841	2	24	12	24	1	—	12	18	14	.77	2
Mt. Washington,	125	69,143	2	22	13	25	1	1	13	17	16	.94	2
New Ashford,	1,305	555,794	9	186	144	245	3	19	157	185	151	.81	9
New Marlborough,	16,074	6,801,740	45	2,991	2,019	2,723	—	161	1,259	1,921	1,801	.93	55
North Adams,	583	213,821	8	93	77	114	1	12	77	83	69	.83	8
Otis,	305	138,967	5	37	23	46	2	2	28	40	35	.87	5
Peru,	17,281	11,995,680	26	3,561	2,016	3,721	19	195	2,159	3,033	2,802	.92	87
Pittsfield,	796	474,524	7	152	100	158	4	2	152	158	130	.82	7
Richmond,	807	354,440	9	160	107	161	8	17	105	120	144	.87	9
Sandisfield,	569	172,353	8	85	63	97	2	1	63	93	83	.89	8
Savoy,	1,954	903,443	14	279	181	360	5	41	197	260	224	.86	14
Sheffield,	2,132	2,861,836	14	364	214	387	5	41	206	326	299	.91	11
Stockbridge,	412	211,200	5	79	44	77	—	10	49	61	51	.83	5
Tyringham,	434	203,137	7	95	60	100	4	1	55	73	62	.84	7
Washington,	1,492	620,985	9	323	221	369	9	44	209	307	265	.86	10
West Stockbridge,	4,221	2,352,786	20	659	438	919	14	60	562	632	585	.92	27
Williamstown,	612	197,800	7	105	70	101	4	8	70	85	73	.85	7
Windsor,													
Totals,	81,108	\$45,846,955	358	14,810	9,433	15,706	154	1,077	9,014	12,294	11,067	.90	450

BARNSTABLE COUNTY — CONTINUED.

TOWNS.	HIGH SCHOOLS.										Salary of Principal.				
	Whole No. of different male teachers in school-year.	No. of teachers who have attended Normal Schools.	No. of teachers who have graduated from Normal Schools.	A'v'g wages per month of male teachers in Public Schools.	A'v'g wages per month of female teachers in Public Schools.	Aggregate of months all the Public Schools have been kept during the school-year.	Average No. of months the Public Schools have been kept for the entire year.	No. of Schools kept less than six months each.	No. of High Schools.	No. of teachers.		No. of pupils.	How supported.	Length.	
														Months.	Days.
Barnstable, .	12	26	6	\$82 00	\$38 82	205	8-5	-	1	2	65	Taxation,	10	\$1,500 00	
Bourne, .	3	16	4	75 00	41 11	86-10	7-17	-	1	2	39	Taxation,	9-10	855 00	
Brewster, .	2	12	7	-	35 33	47-5	7-17	-	-	-	-	-	-	-	
Chatham, .	2	11	1	75 00	25 00	112	8	1	1	1	35	Taxation,	9	900 00	
Dennis, .	11	10	5	68 50	32 75	144-10	8-10	-	1	2	62	Taxation,	9	810 00	
Eastham, .	1	3	1	97 75	37 75	26-5	8-15	-	-	-	-	-	-	-	
Falmouth, .	4	21	8	72 11	43 68	139	9-8	-	1	2	49	Part tax,	9-10	1,200 00	
Harwich, .	6	15	10	53 20	34 87	118	9-2	-	1	1	66	Taxation,	10	900 00	
Mashpee, .	-	2	-	-	41 50	15	7-10	-	-	-	-	-	-	-	
Orleans, .	1	8	6	80 00	40 00	43-10	8-7	-	-	-	-	-	-	-	
Provincetown, .	2	20	3	113 16	31 28	167	9-10	-	1	3	56	Taxation,	9-10	1,200 00	
Sandwich, .	3	17	2	85 00	32 60	89-1	8-2	1	1	2	39	Taxation,	9-18	1,100 00	
Truro, .	-	9	2	-	37 00	54	9	-	-	-	-	-	-	-	
Wellfleet, .	1	4	3	88 88	38 00	43	5	-	1	1	64	Taxation,	9	800 00	
Yarmouth, .	5	5	2	70 00	37 05	81	9	-	1	1	31	Part tax,	9	1,000 00	
Totals, .	51	179	68	\$73 68	\$36 31	1,371-1	8-5	2	10	17	506	-	94-8	\$10,265 00	

BERKSHIRE COUNTY — CONTINUED.

Adams, .	5	39	11	8	\$110 26	\$87 97	326-10	9-6	-	1	3	123	Taxation,	9-15	\$1,500 00
Alford, .	-	4	-	-	-	28 00	17-5	8-12	-	-	-	-	-	-	-

SCHOOL RETURNS.

V

Egremont,	7	-	-	102 51	34 00	9-10	8	-	1	2	100	Taxation,	-	-
Florida,	7	-	-	-	25 16	87-10	6-10	-	-	-	-	-	-	-
Great Barrington,	30	4	2	72 50	33 00	236-9	9-12	-	2	3	107	Taxation,	9-11	1,350 00
Hancock,	1	7	1	24 00	27 60	36-10	7-3	1	-	-	-	-	-	-
Hinsdale,	1	17	1	63 15	29 00	99-6	9	-	1	1	35	Taxation,	9-6	600 00
Lauesborough,	2	2	2	-	32 00	49-10	8-5	-	-	-	-	-	-	-
Lee,	21	2	1	94 87	33 28	87	8-10	-	1	2	65	Taxation,	9-15	1,200 00
Lenox,	18	3	3	61 00	33 00	115-5	9-5	-	1	1	57	Taxation,	9-15	900 00
Monterey,	9	2	-	-	25 21	40-5	5-15	-	1	1	14	Taxation,	2-10	80 00
Mt. Washington,	-	-	-	-	24 00	14	7	-	-	-	-	-	-	-
New Ashford,	3	-	-	-	25 13	15	7-10	-	-	-	-	-	-	-
New Marlboro',	13	1	1	-	24 56	82-5	9-7	-	-	-	-	-	-	-
North Adams,	3	69	11	102 04	45 57	444	9-9	-	2	6	130	Taxation,	{ 9-15 9	1,500 00 600 00
Otis,	1	9	1	20 00	20 00	44	5-10	-	-	-	-	-	-	-
Peru,	8	-	-	-	17 60	30	6	-	-	-	-	-	-	-
Pittsfield,	6	91	15	130 00	39 60	775-8	10	-	1	6	220	Taxation,	10	1,800 00
Richmond,	1	7	3	50 00	29 71	59	8-8	-	1	1	30	Taxation,	8-8	426 00
Sandisfield,	4	8	-	20 50	20 81	63-3	7	1	-	-	-	-	-	-
Savoy,	1	8	2	21 00	17 80	51-5	6-8	-	-	-	-	-	-	-
Sheffield,	2	18	3	48 10	26 44	133	9-10	-	1	1	31	Taxation,	9-10	600 00
Stockbridge,	1	17	9	126 31	49 12	83-10	9-5	-	1	2	54	Taxation,	9	1,200 00
Tyringham,	9	2	-	-	25 00	38-10	7-14	-	-	-	-	-	-	-
Washington,	10	1	-	-	20 00	47-10	6-5	-	-	-	-	-	-	-
West Stockbridge,	6	10	7	40 00	33 68	87-15	9-15	-	-	-	-	-	-	-
Williamstown,	3	24	4	103 00	32 00	166	8-6	1	1	3	41	Taxation,	9-15	1,000 00
Windsor,	12	-	-	-	21 33	47-10	7-10	1	-	-	-	-	-	-
Totals,	44	529	89	\$75 67	\$33 86	3,567-6	8-1	5	16	33	1,007	-	134-15	\$14,188 00

BOARD OF EDUCATION.

BARNSTABLE COUNTY — CONTINUED.

TOWNS.	Amount raised by taxes and expended for wages of teachers, fuel, school-dues, and school-rooms, for the school-year 1892-93.	Expense of supervision by school committee.	Salary of Superintendent of Public Schools.	Expense of printing reports, etc.	Expense of sundries, — books, stationery, etc.	Amount expended for transportation of pupils.	Amount expended for new school-houses.	Amount expended for alterations and permanent improvements.	Amount expended for ordinary repairs.	Amount paid for all school purposes from money raised by taxation.
Barnstable,	\$12,500 00	\$289 02	\$1,500 00	\$37 50	\$581 96	\$1,000 00	-	\$350 00	\$820 49	\$17,078 97
Bourne, .	4,970 80	95 00	281 25	-	434 70	-	-	-	266 49	6,048 24
Brewster,	1,949 82	120 00	-	15 00	234 66	144 00	-	-	99 58	2,563 06
Chatham,	4,115 00	230 00	-	30 00	480 00	-	-	-	671 00	5,326 00
Dennis, .	6,500 00	155 00	851 92	42 50	766 10	-	-	-	978 67	9,294 19
Eastham,	900 00	-	59 28	10 00	133 93	-	-	-	59 21	1,162 42
Falmouth,	7,500 00	99 00	1,400 00	55 35	681 70	700 00	-	-	234 02	10,670 07
Harwich,	5,300 00	131 30	303 20	-	605 97	-	-	-	271 32	6,611 79
Mashpee,	700 00	20 00	83 28	15 05	64 74	172 50	-	55 00	13 55	1,124 12
Orleans, .	2,000 00	-	150 00	16 98	128 23	165 00	-	-	95 73	2,555 94
Provincetown,	9,000 00	207 00	278 07	16 00	822 89	-	-	549 19	-	10,873 15
Sandwich,	5,261 64	48 25	562 50	47 75	308 84	9 36	-	-	278 15	6,516 49
Truro, .	1,700 00	98 00	-	18 00	246 00	-	-	-	217 00	2,279 00
Wellfleet,	3,100 00	110 00	70 30	10 00	247 41	141 80	-	-	-	3,679 51
Yarmouth,	4,200 00	-	1,300 00	19 00	650 00	350 00	-	-	200 00	6,719 00
Totals,	\$69,697 26	\$1,602 57	\$6,839 80	\$333 13	\$6,387 13	\$2,682 66	-	\$954 19	\$4,205 21	\$92,701 96

BERKSHIRE COUNTY — CONTINUED.

Adams, .	\$20,336 97	\$175 00	\$1,900 00	\$25 00	\$2,697 03	-	-	\$677 89	\$520 90	\$26,332 79
Alford, .	300 85	16 00	-	5 00	61 54	\$80 00	-	-	-	-

SCHOOL RETURNS.

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Florida, . . .	1,020 85	-	25 00	7 50	60 17	-	-	-	75 00	1,113 02
Gt Barrington, . .	11,570 00	195 00	-	25 00	815 00	30 00	-	-	12,710 00	
Hancock, . . .	800 00	53 73	-	7 00	133 18	-	-	100 00	1,146 49	
Hinsdale, . . .	3,600 00	75 00	-	-	531 17	-	-	51 81	4,322 88	
Lanesborough, . .	1,800 00	-	150 00	-	60 83	229 00	-	170 00	2,434 80	
Lee, . . .	9,074 66	800 00	-	-	848 03	-	-	-	10,222 69	
Lenox, . . .	5,800 00	230 00	-	15 00	500 00	-	-	2,000 00	9,145 00	
Monterey, . . .	700 00	45 00	-	5 00	110 77	36 75	\$201 10	50 00	1,165 92	
Mt. Washington, .	75 00	17 00	-	2 00	3 75	-	-	-	118 25	
New Ashford, . .	66 00	36 50	-	12 00	15 13	-	-	-	129 63	
New Marlboro', .	1,587 80	74 55	150 00	4 13	180 20	61 00	-	-	2,105 14	
North Adams, . .	30,369 07	645 00	2,000 00	123 25	3,763 66	-	4,833 58	-	44,048 65	
Otis, . . .	900 00	76 50	-	4 50	53 33	-	-	-	1,043 33	
Peru, . . .	300 00	15 00	-	4 00	32 00	-	-	-	363 00	
Pittsfield, . . .	44,471 58	-	1,975 00	125 00	5,390 14	305 48	9,200 00	3,000 00	65,613 35	
Richmond, . . .	1,667 05	67 00	185 97	30 00	238 80	-	-	-	2,153 46	
Sandisfield, . . .	1,000 00	-	-	-	277 28	15 00	-	-	1,426 83	
Savoy, . . .	700 00	39 00	-	7 00	135 72	-	-	-	894 53	
Sheffield, . . .	3,450 00	72 50	225 00	15 00	315 25	-	-	225 66	4,491 50	
Stockbridge, . . .	6,500 00	225 00	500 00	-	662 72	280 00	-	-	8,725 00	
Tyringham, . . .	800 00	20 00	-	-	69 63	25 00	-	-	921 54	
Washington, . . .	750 00	28 50	110 41	5 00	81 37	-	-	-	987 28	
W. Stockbridge, .	4,300 00	-	250 00	17 80	490 16	72 50	-	249 71	5,499 50	
Williamstown, . .	8,467 48	135 00	-	30 00	576 19	133 00	-	934 27	10,430 60	
Windsor, . . .	1,107 35	31 00	-	5 00	73 85	103 50	-	-	1,320 70	
Totals, . . .	\$175,378 49	\$2,822 28	\$8,385 38	\$552 58	\$19,816 21	\$1,321 23	\$14,284 68	\$7,459 34	\$6,957 13	\$236,527 32

BARNSTABLE COUNTY — CONCLUDED.

TOWNS.	Amount of voluntary contributions for Public Schools.	Amount of local funds, the income of which can be appropriated only for the support of Schools and Academies.	Income of local funds.	Income of surplus revenue and other funds, including the dog tax, used at the option of the town.	ACADEMIES AND PRIVATE SCHOOLS.					Town's share of school-fund payable Jan. 25, 1888.	How much of said fund was used for apparatus and books of reference.
					No. of Academies.	Whole No. attending for the year.	Amount of tuition paid.	No. of Private Schools.	Whole No. attending for the year.	Estimated amount of tuition.	
Barnstable,	\$180 00	\$10,283 00	\$505 42	\$546 50	—	—	—	—	—	\$924 41	—
Bourne,	—	—	—	253 14	—	—	—	—	—	868 31	\$60 00
Brewster,	—	—	—	78 28	—	—	—	—	—	368 31	—
Chatham,	—	—	—	120 97	—	—	—	—	—	324 41	—
Dennis,	—	—	—	194 00	—	—	—	—	—	443 31	—
Eastham,	—	—	—	45 65	—	—	—	—	—	—	—
Falmouth,	—	10,000 00	810 45	332 13	—	—	—	—	—	268 31	—
Harwich,	—	—	—	160 68	—	—	—	—	—	409 64	—
Mashpee,	—	—	—	49 21	—	—	—	—	—	443 31	—
Orleans,	—	—	—	49 14	—	—	—	—	—	218 31	—
Provincetown,	—	—	—	—	—	—	—	1	30	424 41	—
Sandwich,	—	4,500 00	—	247 98	—	—	—	—	—	443 31	50 00
Truro,	—	—	—	70 00	—	—	—	—	—	424 41	—
Wellfleet,	—	—	—	75 09	—	—	—	—	—	268 31	—
Yarmouth,	—	15,000 00	900 00	200 00	—	—	—	—	—	—	—
Totals,	\$180 00	\$39,733 00	\$2,215 87	\$2,422 77	—	—	—	1	30	\$4,728 76	\$110 00

BERKSHIRE COUNTY — CONCLUDED.

Adams,	—	—	—	—	—	—	—	—	—	—	—
Alford,	—	—	—	\$24 16	—	—	—	—	—	—	\$975 00

SCHOOL RETURNS.

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Florida,	-	-	-	-	-	618 00	-	-	2	64	\$9,215 00	-	409 64	-	13 00
Gt. Barrington,	-	-	-	-	-	-	-	-	-	-	-	-	368 31	-	-
Hancock,	-	\$200 00	-	-	-	-	-	-	-	-	-	-	934 64	-	-
Hinsdale,	-	-	-	-	-	-	-	-	-	-	-	-	268 31	-	268 31
Lanesborough,	-	680 00	-	-	-	-	-	-	1	140	-	-	50 00	-	-
Lee,	-	-	-	-	-	-	-	-	-	-	-	-	409 64	-	-
Lenox,	-	-	-	-	-	118 20	-	-	-	-	-	-	275 00	-	-
Monterey,	-	-	-	-	-	11 50	-	-	-	-	-	-	275 00	-	-
Mt. Washington,	-	100 00	-	-	-	19 48	-	-	-	-	-	-	334 64	-	-
New Ashford,	-	-	-	-	-	79 60	-	-	-	-	-	-	-	-	-
New Marlboro,	-	4,600 00	-	-	-	474 48	-	-	1	900	2,000 00	-	409 64	-	-
North Adams,	-	-	-	-	-	-	-	-	-	-	-	-	275 00	-	-
Otis,	-	-	-	-	-	-	-	-	1	2	10 00	-	448 31	-	-
Peru,	-	-	-	-	-	-	-	-	5	255	7,500 00	-	387 20	-	10 50
Pittsfield,	-	-	-	-	-	-	-	-	-	-	-	-	275 00	-	-
Richmond,	-	-	-	-	-	69 40	-	-	-	-	-	-	368 31	-	21 23
Sandisfield,	-	1,290 00	-	-	-	40 43	-	-	-	-	-	-	184 64	-	170 00
Savoy,	-	1,297 00	-	-	-	255 44	-	-	-	-	-	-	448 31	-	-
Sheffield,	-	3,051 22	-	-	-	-	-	-	-	-	-	-	424 41	-	-
Stockbridge,	\$100 00	4,500 00	-	-	-	-	-	-	1	8	250 00	-	184 64	-	-
Tyringham,	-	-	-	-	-	68 58	-	-	-	-	-	-	448 31	-	-
Washington,	-	-	-	-	-	49 12	-	-	-	-	-	-	424 41	-	-
W. Stockbridge,	-	-	-	-	-	-	-	-	-	-	-	-	184 64	-	40 00
Williamstown,	-	-	-	-	-	-	-	-	1	30	200 00	-	409 64	-	-
Windsor,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals,	\$100 00	\$15,668 22	\$917 60	\$1,892 13	-	-	-	-	12	1,399	\$19,175 00	\$9,507 44	\$573 04	-	-

BRISTOL COUNTY.

TOWNS.	Population—U. S. Census, 1890.	Valuation—1892.	No. of Public Schools.	No. of persons in town May 1, 1892, between 5 and 15 years of age.	No. of persons in town May 1, 1892, between 16 and 19 years of age.	No. of different pupils of all ages in the Public Schools during the school-year.	No. attending within the year under 5 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 8 and 14 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The per cent. of attendance based upon the average membership.	No. of teachers required by the Public Schools.
Acushnet, . . .	1,027	\$587,830	6	149	113	166	—	22	113	140	101	.72	6
Attleborough, . .	7,577	4,254,839	26	1,272	757	1,631	18	126	879	1,200	1,070	.89	35
Berkley, . . .	894	390,650	7	151	106	150	2	19	86	126	114	.90	7
Dartmouth, . . .	3,122	2,883,700	19	478	298	493	6	35	301	411	360	.87	20
Dighton, . . .	1,489	762,651	11	260	176	317	1	15	180	251	220	.87	11
Easton, . . .	4,493	4,356,666	21	779	499	911	11	69	537	757	690	.91	34
Fairhaven, . . .	2,919	1,610,148	13	443	268	461	4	45	259	421	366	.86	14
Fall River, . . .	74,398	56,065,920	190	15,680	9,140	12,860	42	583	7,955	9,033	8,090	.89	269
Freetown, . . .	1,417	811,007	7	184	144	226	1	14	144	173	149	.86	7
Mansfield, . . .	3,432	1,689,575	17	634	420	722	4	48	406	591	532	.90	16
New Bedford, . .	40,733	40,274,113	150	8,605	4,751	6,713	—	236	3,617	5,379	4,823	.89	155
North Attleborough, .	6,727	3,794,694	28	1,183	730	1,453	2	141	826	1,182	1,072	.90	39
Norton, . . .	1,785	779,925	10	222	154	220	3	7	154	187	170	.90	10
Raynham, . . .	1,940	788,001	8	208	129	245	1	10	126	169	140	.82	8
Rehoboth, . . .	1,786	730,220	15	295	190	304	4	5	185	246	214	.86	15
Seekonk, . . .	1,317	869,200	8	260	163	204	1	8	163	202	178	.88	8
Somerset, . . .	2,106	1,013,275	9	328	198	351	2	25	204	291	261	.89	9
Swansea, . . .	1,456	799,645	10	232	148	232	8	17	148	173	151	.87	10
Taunton, . . .	25,448	18,313,350	81	4,479	2,592	4,151	—	371	2,408	3,622	3,293	.90	106
Westport, . . .	2,599	1,337,825	19	390	247	457	7	34	268	357	294	.82	19
Totals, . . .	186,465	\$141,613,234	655	36,241	21,223	32,227	117	1,830	18,959	21,911	22,238	.89	798

SCHOOL RETURNS.

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Gay Head, . . .	139	24,056	1	21	9	29	-	8	9	22	17	.77	1
Gosnold, . . .	136	210,200	1	9	7	13	-	4	8	9	8	.88	1
Tisbury, . . .	1,506	739,369	3	119	110	146	-	24	115	118	100	.84	4
West Tisbury, .	-	351,616	3	61	31	71	-	6	34	.54	47	.87	3
Totals, . . .	4,369	\$3,811,482	20	545	362	625	5	94	363	493	421	.85	22

BRISTOL COUNTY — CONTINUED.

TOWNS.	Whole No. of different male teachers in school-year.		Whole No. of different female teachers in school-year.		No. of teachers who have attended Normal Schools.	No. of teachers who have graduated from Normal Schools.	Av'ge wages per month of male teachers in Public Schools.		Av'ge wages per month of female teachers in Public Schools.		Aggregate of months all the Public Schools have been kept during the school-year.	Average No. of months the Public Schools have been kept for the entire year.	No. of Schools kept less than six months each.	HIGH SCHOOLS.					Salary of Principal.
	male teachers in school-year.	female teachers in school-year.	No. of teachers who have attended Normal Schools.	No. of teachers who have graduated from Normal Schools.			Av'ge wages per month of male teachers in Public Schools.	Av'ge wages per month of female teachers in Public Schools.	No. of High Schools.	No. of teachers.				No. of pupils.	How supported.	Length.			
																Months.	Days.		
Acushnet,	—	8	4	3	—	\$35 50	54	9	8-19	—	—	—	1	4	136	Taxation,	10	\$1,500 00	
Attleborough,	3	38	12	8	\$105 00	41 12	292-12	8-19	7-17	1	—	—	1	—	—	—	—	—	
Berkley,	—	11	5	4	—	31 07	55-5	8-5	8-5	—	—	—	1	1	36	Taxation,	9	500 00	
Dartmouth,	1	28	4	1	60 00	33 33	162	8	8-5	—	—	—	1	—	23	—	—	—	
Dighton,	—	12	3	1	—	33 45	88	9-15	9-15	—	—	—	1	3	92	Taxation,	9-15	1,500 00	
Easton,	3	36	7	6	105 00	43 50	204-15	9-5	9-5	—	—	—	1	2	63	Taxation,	9-15	800 00	
Fairhaven,	—	22	10	9	—	39 80	120-3	10	10	—	—	—	1	16	476	Taxation,	10	3,000 00	
Fall River,	17	277	26	20	143 30	48 50	1,900	8-17	8-17	—	—	—	1	—	—	—	—	—	
Free town,	—	15	4	1	—	33 40	62	8-4	8-4	—	—	—	1	2	53	Taxation,	10	1,000 00	
Mansfield,	1	15	10	2	94 44	37 03	151-5	9-10	9-10	—	—	—	1	13	507	Taxation,	9-10	2,750 00	
New Bedford,	8	147	21	16	177 77	53 97	1,254	9-10	9-10	—	—	—	1	3	99	Taxation,	10	1,200 00	
North Attleboro',	2	50	22	19	100 00	40 87	263	60-10	63-15	6-3	6-3	—	—	—	—	—	—	—	
Norton,	1	13	1	1	36 00	39 60	60-10	7-19	7-19	—	—	—	—	—	—	—	—	—	
Raynham,	—	16	12	12	—	34 00	63-15	7-19	7-19	—	—	—	—	—	—	—	—	—	
Rehoboth,	—	16	3	1	—	29 48	119-5	9	9	—	—	—	—	—	—	—	—	—	
Seekonk,	—	13	10	10	—	33 80	72	9	9	—	—	—	—	—	—	—	—	—	
Somerset,	1	15	6	4	70 00	38 20	81	9	9	—	—	—	1	1	28	Taxation,	9	700 00	
Swansea,	2	14	5	3	32 00	31 00	90	9	9	—	—	—	—	—	—	—	—	—	
Taunton,	10	96	19	18	145 74	62 53	770	9-10	9-10	—	—	—	1	8	277	Taxation,	10	2,000 00	
Westport,	5	29	4	3	45 92	26 35	166-10	9	9	—	—	—	1	1	34	Taxation,	9	432 50	
Totals,	54	871	188	142	\$124 06	\$46 11	5,970	8-14	8-14	1	—	—	11	54	1,821	—	106	\$16,372 50	

Gay Head,	-	1	1	5	\$56 00	\$35 97	162-12	8-2	1	1	1	1	34	-	9	\$540 00
Gosnold,	1	-	-	-	48 33	-	9	9	-	-	-	-	-	-	-	-
Tisbury,	1	3	1	1	70 00	41 66	25-2	8-7	-	-	-	-	-	-	-	-
West Tisbury,	1	5	4	3	40 00	33 67	27	9	-	-	-	-	-	-	-	-
Totals,	5	23	8	5	\$56 00	\$35 97	162-12	8-2	1	1	1	1	34	-	9	\$540 00

BRISTOL COUNTY — CONTINUED.

TOWNS.	Amount raised by taxes and expended for schools, including wages of teachers, board, fuel, care of fires and school-rooms, for the school-year 1892-93.	Expense of supervision by school committee.	Salary of Superintendent of Public Schools.	Expense of printing reports, etc.	Expense of sundries, — books, stationery, etc.	Amount expended for transportation of pupils.	Amount expended for new school-houses.	Amount expended for alterations and permanent improvements.	Amount expended for ordinary repairs.	Amount paid for all school purposes from money raised by taxation.
Acushnet.	\$1,800 00	\$80 00	—	\$5 00	\$442 60	—	—	—	\$29 37	\$2,356 97
Attleborough.	17,000 00	25 00	\$1,200 00	—	1,200 00	\$625 00	\$5,000 00	—	1,700 00	26,750 00
Berkley.	1,609 16	80 00	—	16 00	190 84	37 50	—	—	49 75	1,983 25
Dartmouth.	5,000 00	100 00	625 00	25 00	600 00	140 00	—	—	450 00	6,940 00
Dighton.	3,500 00	—	175 00	—	261 77	—	—	—	404 61	4,341 38
Easton.	11,000 00	—	1,400 00	—	1,579 29	859 64	—	\$550 00	443 26	15,832 19
Fairhaven.	6,434 07	—	—	42 00	571 90	—	—	—	430 00	7,477 97
Fall River.	176,185 72	1,800 00	2,500 00	288 52	15,882 73	950 00	12,532 32	—	—	210,139 29
Freetown.	2,000 00	100 00	—	14 00	450 66	153 15	—	—	—	2,717 81
Mansfield.	9,027 42	150 00	600 00	20 00	1,161 58	99 00	—	451 91	55 66	11,565 57
New Bedford.	116,238 00	700 00	3,000 00	176 85	4,164 02	—	25,722 55	12,781 53	5,176 20	167,959 15
N Attleborough.	18,610 74	—	1,375 00	—	989 00	—	15,000 00	—	1,373 27	37,348 01
Norton.	2,435 00	65 00	—	52 50	287 72	—	—	—	207 13	3,047 35
Raynham.	3,000 00	183 00	150 00	11 00	424 84	—	—	—	93 54	3,862 38
Rehoboth.	3,500 00	115 00	—	36 60	397 04	—	—	—	167 14	4,215 78
Seekonk.	2,000 00	98 50	—	—	267 34	—	—	—	211 34	2,607 18
Somerset.	3,882 20	233 04	—	29 15	730 89	—	—	46 82	158 47	5,080 57
Swansca.	3,503 88	115 00	—	21 00	108 41	—	—	263 90	—	5,046 88
Taunton.	67,967 21	300 00	2,150 00	165 01	8,484 35	931 89	1,032 64	—	4,000 00	83,998 45
Westport.	4,500 00	200 00	625 00	20 00	466 00	9 25	—	125 00	259 00	6,204 25
Totals.	\$459,193 40	\$4,344 54	\$13,800 00	\$922 62	\$38,660 98	\$3,805 43	\$59,287 51	\$11,221 16	\$16,238 74	\$609,474 38

SCHOOL RETURNS.

XV

[illegible]

BRISTOL COUNTY — CONCLUDED.

TOWNS.	Amount of voluntary contributions for Public Schools.	Amount of local funds, the income of which can be appropriated only for the support of Schools and Academies.	Income of local funds.	Income of surplus revenue and other funds, including the dog tax, used at the option of the town.	ACADEMIES AND PRIVATE SCHOOLS.						Town's share of school-fund payable Jan. 25, 1893.	How much of said fund was used for apparatus and books of reference.
					No. of Academies.	Whole No. attending for the year.	Amount of tuition paid.	No. of Private Schools.	Whole No. attending for the year.	Estimated amount of tuition.		
Acushnet, . . .	—	\$22,000 00	\$1,000 00	\$161 30	—	—	—	—	—	—	\$868 31	\$90 00
Attleborough, . . .	\$125 00	—	—	793 65	—	—	—	—	28	\$425 00	—	—
Berkley, . . .	—	—	—	121 99	—	—	—	—	—	—	443 31	—
Dartmouth, . . .	—	2,000 00	80 80	293 50	—	—	—	—	—	—	208 31	—
Dighton, . . .	—	—	—	212 85	—	—	—	—	—	—	368 31	45 00
Easton, . . .	—	100,000 00	6,915 93	1,371 04	—	—	—	—	—	—	—	—
Fairhaven, . . .	—	—	—	316 98	—	—	—	—	—	—	268 31	—
Fall River, . . .	—	50,000 00	2,514 54	—	—	—	—	13	3,981	9,500 00	—	—
Freetown, . . .	18 15	—	—	—	—	—	—	—	—	—	334 64	834 64
Mansfield, . . .	—	1,000 00	50 00	458 89	—	—	—	—	—	—	268 31	—
New Bedford, . . .	—	50,000 00	3,000 00	1,205 40	1	75	\$5,000 00	9	2,821	8,500 00	—	—
N. Attleborough, . . .	—	—	—	893 32	—	—	—	—	—	—	—	—
Norton, . . .	—	—	—	327 18	1	115	2,842 00	—	—	—	—	—
Raynham, . . .	—	—	—	263 84	—	—	—	—	—	—	368 31	—
Rehoboth, . . .	—	—	—	310 85	—	—	—	—	20	256 00	368 31	—
Seekonk, . . .	225 00	—	—	218 46	—	—	—	—	—	—	334 64	—
Somerset, . . .	—	8,000 00	465 00	282 27	—	—	—	—	—	—	234 64	—
Swansea, . . .	—	—	—	—	—	—	—	—	—	—	368 31	—
Taunton, . . .	—	—	—	1,082 13	1	103	3,800 00	2	454	750 00	—	—
Westport, . . .	—	—	—	314 45	—	—	—	—	—	—	268 31	—
Totals, . . .	\$368 15	\$233,000 00	\$14,026 27	\$8,630 10	3	293	\$11,642 00	27	7,304	\$19,431 00	\$4,630 33	\$511 64

SCHOOL RETURNS.

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	-	-	-	\$218 12	1	13	-	-	\$1,802 96	\$99 19
Totals,	-	-	-	-	-	-	-	-	-	-
Gay Head,	-	-	-	-	-	-	-	-	409 65	8 00
Gosnold, .	-	-	-	34 33	-	-	-	-	275 00	81 19
Tisbury, .	-	-	-	90 70	-	-	-	-	100 00	-
West Tisbury,. .	-	-	-	13 88	1	13	-	-	443 31	-

ESSEX COUNTY.

TOWNS.	Population—U. S. Cen- sus, 1880.	Valuation—1892.	No. of Public Schools.	No. of persons in town May 1, 1892, between 5 and 14 years of age.	No. of persons in town May 1, 1892, between 8 and 14 years of age.	No. of different pupils of all ages in the Pub- lic Schools during the school-year.	No. attending within the year under 5 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 8 and 14 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The per cent. of attend- ance based upon the average membership.	No. of teachers required by the Public Schools.
Amesbury,	6,798	\$4,539,251	28	1,628	944	1,197	—	113	510	997	928	.98	31
Andover,	6,142	4,446,289	30	1,011	599	1,063	7	15	684	910	808	.88	32
Beverly,	10,821	13,398,325	38	1,782	1,052	1,811	—	131	978	1,781	1,462	.82	44
Boxford,	865	661,223	6	160	100	154	—	9	93	116	104	.89	6
Bradford,	3,720	2,189,256	17	652	386	730	—	150	434	636	583	.91	21
Danvers,	7,454	3,992,390	24	1,183	691	1,474	—	111	755	1,174	1,012	.86	30
Essex,	2,117	867,670	9	223	155	239	4	20	206	260	237	.91	10
Georgetown,	1,713	1,036,250	11	357	213	364	—	29	210	339	315	.92	13
Gloucester,	24,651	15,011,616	89	3,637	2,263	4,454	6	523	2,252	3,665	3,550	.97	112
Groveland,	2,191	907,232	12	500	279	440	—	41	279	373	342	.91	12
Hamilton,	961	992,672	5	148	93	154	4	4	91	131	109	.83	5
Flaverhill,	27,412	19,788,110	90	4,631	2,307	3,815	10	397	1,996	3,135	2,904	.92	108
Ipswich,	4,489	2,583,434	18	858	582	817	—	120	501	631	566	.89	22
Lawrence,	44,654	32,527,937	117	9,005	5,284	6,582	3	501	3,924	5,419	5,202	.95	149
Lynn,	55,727	47,052,914	183	8,869	5,119	9,265	—	867	5,009	8,352	7,355	.87	202
Lynnfield,	787	605,207	4	95	77	111	1	—	70	97	77	.79	4
Manchester,	1,769	7,157,744	6	201	147	273	—	31	127	233	203	.87	8
Marblehead,	8,202	5,205,146	17	1,116	635	1,319	—	146	713	1,199	1,050	.87	28
Merrimac,	2,633	1,354,537	14	425	241	549	—	81	260	456	420	.92	16
Methuen,	4,814	3,321,088	22	934	558	870	6	75	769	790	718	.90	29
Middleton,	924	554,006	5	168	105	182	3	11	168	131	104	.89	5
Nahant,	880	4,768,324	4	07	89	100	—	—	—	—	—	—	—

SCHOOL RETURNS.

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Salisbury,	20,427,876	32	0,120	3,213	3,118	-	367	2,424	0,322	0,100	.87	7
Saugus,	1,316	7	220	165	227	-	11	63	182	159	.89	18
Swampscott,	3,673	16	687	893	872	-	56	515	677	608	.89	18
Topsfield,	3,198	11	463	297	498	-	46	297	344	324	.94	13
Wenham,	1,022	5	160	104	178	5	10	90	143	120	.83	5
West Newbury,	886	5	135	67	135	1	7	65	104	99	.95	5
West Newbury,	1,796	10	268	186	287	1	26	177	241	211	.87	10
Totals,	299,995	1,023	50,607	30,037	47,736	66	4,381	26,885	41,448	37,545	.90	1,198

SCHOOL RETURNS.

xxi

	9	100	82	75	\$123 47	\$47 32	9,778-10	9-4	4	28	127	3,576	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50
Ware,	9	100	82	75	\$123 47	\$47 32	9,778-10	9-4	4	28	127	3,576	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50
Salem,	1	8	4	4	60 00	28 00	56	8	1	1	1	11	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50
Salisbury,	1	19	10	8	110 00	41 65	146	9	-	1	2	11	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50
Saugus,	1	12	8	8	160 00	48 00	110	10	-	1	2	11	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50
Swampscott,	2	7	5	2	50 00	33 50	45	9	-	-	-	11	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50
Topsfield,	-	8	6	6	-	33 60	45	9	-	-	-	11	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50
Wenham,	2	14	2	-	69 00	29 57	82	8-2	-	1	1	29	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50
West Newbury,	2	14	2	-	69 00	29 57	82	8-2	-	1	1	29	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50
Totals,	96	1,199	456	373	\$123 47	\$47 32	9,778-10	9-4	4	28	127	3,576	Taxation, 315 Taxation, 43 Taxation, 72 Taxation, 42	9-12 8 9 10 - 9 8-2	257-17	\$40,065 50

ESSEX COUNTY — CONTINUED.

TOWNS.	Amount raised by taxes and expended for schools, including wages of teachers, fire and school-rooms, for the school-year 1892-93.	Expense of supervision by school committee.	Salary of Superintendent of Public Schools.	Expense of printing reports, etc.	Expense of sundries, — books, stationery, etc.	Amount expended for transportation of pupils.	Amount expended for new school-houses.	Amount expended for alterations and permanent improvements.	Amount expended for ordinary repairs.	Amount paid for all school purposes from money raised by taxation.
Amesbury,	\$14,019 52	\$500 00	—	\$50 00	\$1,000 50	—	—	\$131 52	—	\$15,701 54
Andover,	14,999 98	—	\$1,900 00	206 67	1,000 00	—	\$787 04	7,411 15	\$1,492 75	27,147 59
Beverly,	21,742 07	74 30	—	48 50	4,803 66	\$725 81	—	—	2,916 78	30,311 12
Boxford,	1,500 00	125 00	—	14 00	200 00	—	—	—	150 00	1,989 00
Bradford,	9,700 00	300 00	—	7 00	822 71	—	5,792 00	—	231 18	16,852 89
Danvers,	15,353 00	820 00	—	75 00	1,968 00	—	—	4,950 00	1,275 00	24,441 00
Essex,	3,500 00	180 00	—	92 00	603 24	169 00	—	—	133 32	4,617 56
Georgetown,	4,025 00	79 00	—	60 00	450 00	—	—	—	150 00	4,764 00
Gloucester,	58,909 35	350 00	2,200 00	218 00	3,431 28	400 00	—	1,961 01	11,318 60	78,788 24
Groveland,	5,341 81	160 50	—	26 90	692 65	—	2,000 00	—	123 04	8,344 90
Hamilton,	1,706 02	55 00	—	12 50	624 85	—	—	227 56	35 00	2,660 93
Haverhill,	69,739 61	—	2,000 00	150 00	5,748 66	571 45	17,249 90	—	7,963 57	103,423 19
Ipswich,	8,350 00	320 00	—	15 20	750 74	—	—	175 06	356 98	9,967 98
Lawrence,	89,672 76	1,200 00	2,500 00	185 00	10,458 05	—	24,914 31	7,903 10	7,401 52	144,234 74
Lynn,	147,233 40	1,200 00	2,750 00	481 00	12,861 62	—	—	6,095 84	8,488 80	179,110 66
Lynnfield,	1,383 80	68 00	—	—	180 88	—	—	102 74	49 83	1,785 25
Manchester,	5,009 39	100 00	400 00	31 70	1,028 65	778 00	—	—	193 26	7,541 00
Marblehead,	15,731 23	25 00	1,216 67	74 00	2,964 15	—	—	—	1,045 80	21,056 85
Merrimac,	7,087 17	155 00	—	25 00	690 60	—	—	398 63	98 36	8,384 76
Methuen,	12,211 79	400 00	—	49 00	1,624 78	—	—	804 61	1,324 59	16,414 77
Middleton,	1,600 00	100 00	—	16 23	315 00	—	—	—	—	2,000 09
Nabant,	4,090 62	275 00	—	91 00	269 52	—	—	—	168 84	—
Newbury,	2,450 00	60 00	—	13 00	269 52	33 20	—	—	—	—

SCHOOL RETURNS.

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Rowley, .	2,100 00	75 00	-	169 76	150 00	-	9,082 25	-	100 00	111,398 22
Salem, .	82,508 04	1,200 00	-	-	8,711 00	-	-	1,905 45	5,321 72	2,726 96
Salisbury, .	2,132 54	65 00	-	-	261 36	21 00	-	247 06	-	9,500 00
Saugus, .	8,407 34	-	-	25 00	768 81	-	-	218 97	79 88	10,864 00
Swampscott, .	8,881 00	300 00	-	35 00	1,175 00	-	-	-	473 00	2,379 00
Topsfield, .	2,000 00	100 00	-	19 00	150 00	-	-	35 00	75 00	1,828 11
Wenham, .	1,400 00	116 00	-	35 00	190 43	-	-	-	86 68	3,998 73
West Newbury, .	3,474 01	146 00	-	10 00	219 00	-	-	-	149 72	-
Totals, .	\$700,449 53	\$9,600 33	\$16,466 67	\$2,314 88	\$69,798 72	\$2,961 46	\$59,775 50	\$37,344 25	\$54,228 73	\$952,940 07

FRANKLIN COUNTY.

TOWNS.	Population—U. S. Cen- sus, 1880.	Valuation—1892.	No. of Public Schools.	No. of persons in town May 1, 1892, between 5 and 15 years of age.	No. of persons in town May 1, 1892, between 8 and 14 years of age.	No. of different pupils of all ages in the Pub- lic Schools during the school-year.	No. attending within the year under 5 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 8 and 14 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The per cent. of attend- ance based upon the average membership.	No. of teachers required by the Public Schools.
Ashfield, .	1,025	\$477,148	10	106	74	177	1	8	85	142	133	.93	11
Barnardston, .	770	371,034	6	97	62	118	6	3	74	97	91	.93	6
Buckland, .	1,570	537,682	9	282	162	304	14	185	240	240	212	.88	9
Charlemont, .	972	340,326	10	179	126	208	2	11	124	161	144	.89	10
Colrain, .	1,671	565,828	15	310	219	342	3	18	219	269	246	.91	15
Conway, .	1,451	701,429	11	245	150	281	—	35	150	209	204	.97	12
Deerfield, .	2,910	1,488,579	19	424	243	480	4	20	250	460	370	.80	19
Erving, .	972	378,817	5	165	102	191	2	8	146	153	144	.94	5
Gill, .	960	462,101	7	111	73	137	2	7	83	109	96	.88	7
Greenfield, .	5,252	4,913,769	25	938	567	1,147	—	73	562	940	866	.92	31
Hawley, .	515	147,929	7	83	68	89	2	6	62	75	69	.92	7
Heath, .	503	156,980	7	106	63	120	—	22	63	98	91	.92	7
Leverett, .	702	279,024	5	132	87	140	1	5	90	114	106	.94	5
Leyden, .	407	171,528	5	60	43	68	1	12	43	49	46	.94	5
Monroe, .	282	139,471	3	39	22	54	—	4	25	33	29	.87	3
Montague, .	6,296	3,412,404	26	1,148	651	1,119	13	91	761	1,104	1,022	.92	31
New Salem, .	856	287,020	9	129	101	149	3	3	94	108	99	.92	9
Northfield, .	1,869	834,122	10	251	188	257	1	29	128	189	167	.88	10
Orange, .	4,568	2,423,425	23	837	545	967	3	89	545	814	773	.94	24
Rowe, .	541	186,799	6	75	40	95	2	12	47	66	60	.90	6
Shelburne, .	1,553	860,840	10	263	143	233	—	10	113	200	199	.89	6
Shutesbury, .	633	151,172	6	80	68	90	1	—	—	—	—	—	—

SCHOOL RETURNS.

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HAMPDEN COUNTY.

Agawam,	2,352	\$1,236,826	13	498	325	542	1	49	325	452	386	.85	13
Blandford,	871	416,538	13	145	114	190	2	28	114	173	135	.78	19
Brimfield,	1,096	411,400	9	153	100	199	2	31	113	163	141	.92	9
Chester,	1,295	538,534	10	231	128	225	3	2	123	176	149	.84	10
Chicopee,	14,050	7,107,500	31	2,906	1,814	2,109	2	176	1,159	1,509	1,401	.93	39
Granville,	1,061	339,319	9	177	102	197	4	22	117	166	140	.84	15
Hampden,	831	402,825	6	118	68	129	1	8	79	79	62	.78	6
Holland,	201	92,837	2	31	19	33	1	2	19	25	21	.84	2
Holyoke,	35,637	21,473,285	81	7,409	4,940	4,442	17	261	2,600	3,169	2,884	.91	104
Longmeadow,	2,183	1,075,685	11	373	250	390	4	12	217	338	254	.75	12
Ludlow,	1,939	1,013,484	15	436	311	509	5	19	311	348	300	.86	15
Monson,	3,650	1,750,343	20	536	308	640	2	3	418	520	480	.92	23
Montgomery,	266	152,962	4	34	30	51	-	5	29	37	30	.81	4
Palmer,	6,520	2,669,964	31	1,208	833	1,220	2	72	701	955	866	.90	30
Russell,	879	511,268	7	189	139	197	7	1	139	186	125	.67	8
Southwick,	914	509,913	9	141	98	192	1	22	112	147	126	.85	9
Springfield,	44,179	50,780,987	139	7,318	4,335	7,805	21	336	3,805	5,585	5,174	.92	163
Tolland,	393	142,715	6	55	42	69	3	5	42	57	52	.91	6
Wales,	790	279,208	5	144	78	151	-	-	96	117	95	.81	5
Westfield,	9,805	7,153,225	33	1,703	998	1,923	10	309	1,091	1,480	1,377	.93	49
West Springfield,	5,077	3,498,892	26	963	564	1,248	8	83	737	962	882	.91	28
Wilbraham,	1,814	757,006	10	249	155	316	4	11	173	219	191	.87	10
Totals,	135,713	\$105,309,716	490	25,012	15,751	22,777	100	1,457	12,520	16,853	15,274	.90	579

SCHOOL RETURNS.

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HAMPDEN COUNTY — CONTINUED.

	20	5	3	—	34 00	102-15	8-15	1	—	1	—	21	Not by tax.	8-10	—
	19	6	3	—	28 00	75	6-5	1	—	1	—	72	Not by tax.	10	—
	18	2	2	—	34 10	72-10	8	—	—	1	—	—	—	—	—
	10	6	5	—	28 00	74-5	7-8	—	—	—	—	—	—	—	—
	37	16	9	2	41 85	285-12	9-10	1	—	1	—	115	Taxation,	9-15	1,800 00
	15	3	2	—	26 00	63	7	—	—	—	—	—	—	—	—
	9	—	—	—	—	49-9	9-4	—	—	—	—	—	—	—	—
	2	—	—	—	—	26 16	8	—	—	—	—	—	—	—	—
	115	30	28	—	119 55	155-19	9-13	—	—	1	—	266	Taxation,	9-15	2,200 00
	18	3	3	—	37 00	84-6	7-13	—	—	—	—	—	—	—	—
	24	16	8	—	31 70	132	8-8	—	—	—	—	—	—	—	—
	27	6	4	—	38 60	172-7	8-9	—	—	—	—	—	—	—	—
	6	5	1	—	22 00	29	7-5	—	—	—	—	—	—	—	—
	85	6	3	—	86 66	274	9	—	—	1	—	76	Taxation,	10	1,500 00
	11	6	2	—	27 25	59-10	8-5	—	—	—	—	—	—	—	—
	11	6	—	—	60 00	302	8-8	—	—	—	—	—	—	—	—
	154	105	85	—	232 22	1,390	10	—	—	1	—	408	Taxation,	10	3,000 00
	11	—	—	—	—	36	6	—	—	—	—	—	—	—	—
	6	1	1	—	25 20	39-10	7-18	—	—	—	—	—	—	—	—
	52	37	31	—	151 22	313-5	9-4	—	—	1	—	222	Part tax,	10	2,500 00
	33	11	8	—	150 00	244-5	9-8	—	—	1	—	117	Taxation,	10	1,500 00
	13	5	3	—	—	81	8-2	—	—	—	—	—	—	—	—
Totals, . .	47	275	201	—	\$132 78	\$45 32	8-5	4	8	46	1,297	—	—	73	\$13,838 00

FRANKLIN COUNTY — CONTINUED.

TOWNS.	Amount raised by taxes and expended for schools, including wages of teachers, fuel, care of fires and school-rooms, for the school-year 1892-93.	Expense of supervision by school committee.	Salary of Superintendent of Public Schools.	Expense of printing reports, etc.	Expense of sundries, — books, stationery, etc.	Amount expended for transportation of pupils.	Amount expended for new school-houses.	Amount expended for alterations and permanent improvements.	Amount expended for ordinary repairs.	Amount paid for all school purposes from money raised by taxation.
Ashfield, .	\$1,800 00	\$80 00	—	\$10 00	\$178 99	\$12 00	—	—	\$38 67	\$2,109 66
Barnardston, .	2,050 00	74 50	—	—	146 28	—	—	\$156 15	—	2,426 93
Buckland, .	2,500 00	162 50	\$242 94	20 00	317 79	—	—	—	161 31	3,404 54
Charlмонт, .	1,200 00	81 00	—	9 60	179 67	—	\$500 00	37 73	15 00	2,023 00
Colrain, .	2,600 00	135 00	307 58	10 00	420 08	186 82	—	—	465 80	4,125 28
Coway, .	2,669 56	75 00	235 10	20 00	322 49	261 00	—	227 65	88 39	3,899 19
Deerfield, .	6,900 00	825 00	—	25 00	455 77	—	—	—	75 37	6,781 14
Erving, .	1,300 00	42 25	176 22	21 60	172 46	—	1,000 00	120 30	32 83	2,865 66
Gill, .	1,500 00	—	—	10 00	135 17	70 00	—	—	207 78	1,922 95
Greenfield, .	13,928 66	550 00	—	80 00	2,037 94	—	—	2,078 20	2,568 18	21,192 98
Hawley, .	1,000 00	47 48	—	8 00	159 15	60 00	—	74 26	32 27	1,381 16
Heath, .	900 00	—	—	9 00	70 10	63 00	—	—	4 15	1,118 75
Leverett, .	697 00	94 50	72 50	5 00	150 00	53 00	—	—	41 00	1,040 50
Leyden, .	650 00	40 00	—	12 00	78 66	100 00	—	—	—	880 66
Monroe, .	554 14	17 00	—	8 00	104 25	—	—	78 28	144 85	906 52
Montague, .	12,681 73	450 00	—	25 00	1,483 09	1,142 50	—	576 04	837 48	17,195 79
New Salem, .	1,200 00	45 00	—	5 70	148 51	25 00	—	—	—	1,424 21
Northfield, .	2,800 00	143 75	—	80 00	300 00	—	—	—	300 00	3,573 75
Orange, .	13,600 00	375 00	1,004 00	42 00	1,542 01	543 00	—	—	465 42	17,671 43
Rowe, .	700 00	45 00	—	6 50	57 18	53 20	137 69	76 56	—	1,076 03
Shelburne, .	3,306 00	28 00	166 28	16 50	594 31	—	—	—	—	4,000 00
Sunderbury, .	1,528 00	55 00	—	6 00	33 30	8 00	—	—	224 54	1,800 00
Sunderbury, .	1,528 00	55 00	—	6 00	33 30	8 00	—	—	224 54	1,800 00

SCHOOL RETURNS.

xxx

HAMPTON COUNTY — CONTINUED.

Agawam.	\$4,500 00	\$291 62	—	\$1,320 13	—	\$1,252 97	—	—	\$7,364 72
Blandford.	2,000 00	—	—	387 00	\$30 00	—	—	\$109 35	2,596 85
Brimfield.	1,400 00	225 00	\$7 00	157 71	40 00	—	—	100 00	1,969 04
Chester.	2,000 00	270 00	—	277 63	117 75	—	\$179 26	—	2,909 64
Chicopee.	22,086 89	1,800 00	—	1,356 55	—	—	889 97	851 69	26,935 10
Granville.	2,000 00	208 30	—	209 01	122 00	—	—	24 67	2,638 98
Hampden.	1,200 00	—	24 00	105 40	183 05	—	48 86	—	1,675 81
Holland.	200 00	—	4 00	59 75	64 90	—	—	2 00	357 65
Holyoke.	73,501 93	2,300 00	135 00	5,696 36	—	11,842 43	17,528 17	3,752 30	115,176 19
Longmeadow.	4,272 58	—	18 00	530 63	28 80	—	221 51	87 43	5,315 20
Ludlow.	4,400 00	—	12 00	460 06	—	—	248 71	—	5,120 77
Monson.	7,401 38	525 00	21 00	800 00	—	—	464 99	—	9,387 37
Montgomery.	500 00	—	6 25	50 10	—	—	—	70 75	647 10
Palmer.	13,300 00	—	15 00	669 20	1,322 40	—	—	882 30	16,738 90
Russell.	2,043 28	—	20 35	334 74	—	—	—	42 20	2,508 57
Southwick.	1,500 00	163 00	30 00	290 96	196 60	—	—	50 00	2,419 06
Springfield.	135,623 10	3,500 00	204 81	18,545 26	305 50	19,571 61	3,567 34	6,880 64	189,098 26
Tolland.	500 00	—	3 25	35 67	—	—	—	—	577 92
Wales.	1,122 02	—	2 00	97 10	15 00	—	—	25 85	1,298 37
Westfield.	24,727 89	2,000 00	—	2,850 08	365 40	—	985 74	1,266 00	32,145 11
W Springfield.	13,465 37	1,031 25	—	1,982 23	—	—	13,933 61	550 81	31,150 52
Wilbraham.	2,500 00	—	17 00	631 35	—	—	—	703 52	4,053 62
Totals.	\$320,194 44	\$12,314 17	\$519 66	\$36,846 92	\$2,791 40	\$32,667 01	\$38,017 66	\$15,349 51	\$462,079 25

SCHOOL RETURNS.

xxxiii

HAMLDEN COUNTY - CONCLUDED.

Agawan, .	-	\$3,500 00	\$210 00	\$522 18	-	-	-	-	-	-	-	-	-	-	-	-	-	\$234 64	-
Blandford, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	409 65	-
Brimfield, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	387 20	-
Chester, .	-	-	-	-	114 38	-	-	-	-	-	-	-	-	-	-	-	-	312 20	-
Chicopee, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Granville, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	443 31	-
Hampden, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	409 64	-
Holland, .	-	222 22	13 33	184 82	9 57	-	-	-	-	-	-	-	-	-	-	-	-	275 00	-
Holyoke, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longmeadow, .	-	731 00	61 23	207 37	-	-	-	-	-	-	-	-	-	-	-	-	-	324 41	-
Ludlow, .	\$610 00	-	-	92 78	-	-	-	-	-	-	-	-	-	-	-	-	-	424 41	-
Monsen, .	60 00	49,272 00	3,232 72	401 35	1	92	-	-	-	-	-	-	-	-	-	-	-	234 64	-
Montgomery, .	-	-	-	49 14	-	-	-	-	-	-	-	-	-	-	-	-	-	443 31	\$50 10
Palmer, .	-	-	-	473 01	-	-	-	-	-	-	-	-	-	-	-	-	-	218 31	25 00
Russell, .	-	-	-	111 05	-	-	-	-	-	-	-	-	-	-	-	-	-	200 00	-
Southwick, .	-	15,618 03	759 71	90 12	-	-	-	-	-	-	-	-	-	-	-	-	-	312 20	-
Springfield, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tolland, .	2 50	-	-	62 89	-	-	-	-	-	-	-	-	-	-	-	-	-	387 20	-
Wales, .	-	-	-	57 49	-	-	-	-	-	-	-	-	-	-	-	-	-	409 64	-
Westfield, .	-	125,000 00	6,353 92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W. Springfield, .	-	14,000 00	687 82	225 05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilbraham, .	-	1,308 40	78 50	252 02	1	366	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals, .	\$672 50	\$209,651 65	\$11,397 23	\$2,803 17	3	458	\$13,092 00	22	5,641	\$58,489 00	\$5,794 07	\$147 10							

• United with high school.

HAMPSHIRE COUNTY

TOWNS.	Population—U. S. Cen- sus, 1890.	Valuation—1892.	No. of Public Schools.	No. of persons in town May 1, 1892, between 5 and 15 years of age.	No. of persons in town May 1, 1892, between 16 and 19 years of age.	No. of different pupils of all ages in the Pub- lic Schools during the school-year.	No. attending within the year under 5 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 5 and 14 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The per cent. of attend- ance based upon the average membership.	No. of teachers required by the Public Schools.
Amherst, .	4,512	\$3,174,303	19	571	369	766	—	207	389	637	521	.81	24
Belchertown, .	2,120	832,305	18	375	280	409	12	22	265	342	320	.93	18
Chesterfield, .	608	294,198	7	98	68	110	1	14	68	83	80	.96	10
Cummington, .	787	294,741	5	150	83	133	4	15	82	129	121	.93	6
Easthampton, .	4,395	2,452,746	24	685	435	892	3	81	563	729	667	.91	27
Enfield, .	952	720,770	9	179	109	201	7	10	112	178	164	.92	9
Goshen, .	297	136,964	3	51	35	58	—	7	35	39	34	.87	3
Granby, .	765	431,500	8	120	80	131	1	20	71	107	97	.90	8
Greenwich, .	526	271,335	3	64	46	80	—	9	51	62	56	.90	3
Hadley, .	1,669	959,202	13	322	211	339	7	8	198	298	274	.91	13
Hatfield, .	1,246	917,388	8	248	143	246	5	8	142	206	178	.86	8
Huntington, .	1,385	508,421	10	271	158	317	1	23	142	244	217	.88	10
Middlefield, .	455	216,880	6	65	46	104	3	9	59	78	70	.89	6
Northampton, .	14,990	9,664,854	62	2,639	1,570	2,345	8	219	1,390	1,975	1,843	.93	73
Pelham, .	486	176,188	4	92	53	100	—	8	53	83	73	.87	4
Plainfield, .	435	157,991	5	79	52	87	3	8	53	65	60	.92	5
Prescott, .	376	165,859	4	48	30	58	1	4	36	48	38	.88	4
Southampton, .	1,017	489,523	8	175	108	206	1	22	113	152	135	.88	8
South Hadley, .	4,261	1,868,006	19	696	532	993	11	55	515	686	624	.90	22
Ware, .	7,329	3,889,420	26	1,684	986	1,298	7	111	756	981	908	.92	28
Westhampton, .	477	238,856	4	85	46	69	—	—	—	—	—	—	—

HAMPshire COUNTY — CONTINUED

TOWNS.	HIGH SCHOOLS.													
	Whole No. of different school-year.	Whole No. of different female teachers in school-year.	No. of teachers who have attended Normal Schools.	No. of teachers who have graduated from Normal Schools.	Average wages per month of male teachers in Public Schools.	Average wages per month of female teachers in Public Schools.	Aggregate of months all the Public Schools have been kept during the school-year.	Average No. of months the Public Schools have been kept for the entire year.	No. of Schools kept less than six months each.	No. of High Schools.				
										No. of schools.	No. of teachers.	No. of pupils.	How supported.	
										Months.	Length.	Salary of Principal.		
Amherst, .	4	34	8	4	\$83 00	\$97 55	170-5	8-19	-	1	4	151	Taxation, 9-15	\$1,150 00
Belchertown, .	5	21	1	1	55 55	25 00	140	8	1	1	3	47	Part tax, . 8	700 00
Chesterfield, .	1	9	-	-	26 00	22 00	51-12	7-7	-	-	-	-	-	-
Cummington, .	2	5	1	1	32 00	25 46	36-5	7-5	-	1	1	25	Taxation, 2-10	100 00
Easthampton, .	2	31	4	2	102 50	32 55	194-15	8-2	3	1	3	68	Taxation, 9-8	1,400 00
Enfield, .	1	14	6	3	50 00	33 00	66	7-6	1	-	-	-	-	-
Goshen, .	-	5	-	-	-	22 00	22-5	7-8	-	-	-	-	-	-
Granby, .	-	9	2	-	-	30 00	56	7	-	1	1	31	Taxation, 9	567 00
Greenwich, .	-	4	1	1	-	31 55	24-15	8-5	-	-	-	-	-	-
Hadley, .	-	16	3	2	-	24 80	106-2	8-6	-	1	2	60	Part tax, . 10	800 00
Hatfield, .	-	9	1	-	-	28 85	71-10	8-18	-	-	-	-	-	-
Huntington, .	2	13	1	1	30 10	32 40	69-12	6-19	2	-	-	-	-	-
Middlefield, .	-	8	-	-	-	24 00	42-10	7-2	1	-	-	-	-	-
Northampton, .	4	70	25	16	125 00	89 11	587-5	9-10	1	1	6	142	Taxation, 10	1,600 00
Pelham, .	1	4	1	1	31 00	27 50	27-10	6-17	-	-	-	-	-	-
Plainfield, .	2	8	1	1	28 33	25 12	38	6-12	-	-	-	-	-	-
Prescott, .	-	8	1	-	-	27 00	25	7-10	-	-	-	-	-	-
Southampton, .	1	12	5	1	50 00	28 00	62	7-15	-	1	1	27	Taxation, 6	300 00
South Hadley, .	3	28	3	3	133 33	36 59	171	9	-	2	2	72	Taxation, 9	1,400 00
Ware, .	1	32	4	2	130 00	89 50	240	9-5	-	1	3	78	Taxation, 10	1,000 00
Westhampton, .	-	6	1	1	-	25 00	28-10	7-2	-	-	-	-	-	1,300 00

HAMPSHIRE COUNTY — CONCLUDED.

TOWNS.	Amount of voluntary contributions for Public Schools.	Amount of local funds, the income of which can be appropriated only for the support of Schools and Academies.	Income of local funds.	Income of surplus revenue and other funds, including the dog tax, used at the option of the town.	ACADEMIES AND PRIVATE SCHOOLS.						Town's share of school-fund payable Jan. 25, 1893.	How much of said fund was used for apparatus and books of reference.
					No. of Academies.	Whole No. attending for the year.	Amount of tuition paid.	No. of Private Schools.	Whole No. attending for the year.	Estimated amount of tuition.		
Amherst.	—	\$8,406 82	\$294 80	\$278 03	—	—	—	7	105	\$5,000 00	\$424 41	—
Belchertown.	—	4,000 00	209 79	—	—	—	—	—	—	—	387 20	\$147 37
Chesterfield.	—	500 00	18 85	57 66	—	—	—	—	—	—	275 00	—
Cummington.	—	—	—	56 54	—	—	—	—	—	—	218 31	—
Easthampton.	—	350,000 00	18,800 00	220 74	1	144	\$10,000 00	—	—	—	424 41	—
Enfield.	—	—	—	—	—	—	—	—	—	—	275 00	—
Goshen.	—	—	—	64 41	—	—	—	—	—	—	443 31	—
Granby.	—	500 00	30 00	—	—	—	—	—	—	—	275 00	—
Greenwich.	—	20,000 00	1,400 00	168 00	1	60	1,200 00	—	—	—	312 20	—
Hadley.	—	55,000 00	3,344 70	91 67	1	44	290 00	—	—	—	334 64	27 52
Hatfield.	—	—	—	158 10	1	—	—	1	12	100 00	334 64	—
Huntington.	—	—	—	29 89	—	—	—	—	—	—	443 31	100 00
Middlefield.	—	—	—	966 29	—	—	—	5	530	10,200 00	—	—
Northampton.	—	3,000 00	121 20	—	—	—	—	—	—	—	409 64	—
Pelham.	\$20 00	—	—	—	—	—	—	—	—	—	275 00	—
Plainfield.	—	—	—	36 67	—	—	—	—	—	—	275 00	—
Prescott.	—	—	—	—	1	7	—	1	—	25 00	409 64	—
Southampton.	—	—	—	—	1	—	—	—	—	—	—	—
South Hadley.	—	—	—	284 25	1	311	77,750 00	—	—	—	924 41	—
Ware.	—	—	—	—	—	—	—	—	—	—	—	—
Westhampton.	—	—	—	83 41	—	—	—	2	410	450 00	—	—

MIDDLESEX COUNTY.

TOWNS.	Population—U. S. Cen- sus, 1890.	Valuation — 1892.	No. of Public Schools.	No. of persons in town May 1, 1892, between 5 and 15 years of age.	No. of persons in town May 1, 1892, between 16 and 18 years of age.	No. of different pupils of all ages in the Pub- lic Schools during the school-year.	No. attending within the year under 15 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 18 and 14 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The per cent. of attend- ance based upon the average membership.	No. of teachers required by the Public Schools.
Acton,	1,897	\$1,440,475	10	264	178	315	4	29	206	261	248	.93	10
Arlington,	5,629	6,051,456	24	948	703	1,127	8	148	671	918	832	.90	29
Ashby,	825	517,755	9	114	59	153	6	97	59	141	133	.94	10
Ashland,	2,532	1,202,890	11	402	233	453	2	44	228	376	355	.94	12
Ayer,	2,148	1,311,913	12	414	263	550	3	78	270	442	410	.92	12
Bedford,	1,092	905,230	4	153	93	182	1	24	98	135	129	.95	4
Belmont,	2,098	3,614,920	11	400	207	463	5	35	196	407	377	.92	13
Billerica,	2,380	1,758,929	12	444	261	476	1	8	260	352	326	.92	12
Boxborough,	325	241,102	4	52	35	70	3	5	42	53	48	.90	4
Burlington,	617	516,053	5	103	76	94	—	8	62	89	81	.91	5
Cambridge,	70,028	74,240,095	256	12,451	7,668	12,845	270	1,180	7,492	10,861	9,959	.91	284
Carlisle,	481	381,288	5	85	59	95	—	6	57	70	60	.85	5
Chelmsford,	2,695	1,855,875	15	475	327	544	—	38	259	433	388	.87	15
Concord,	4,427	3,743,740	14	643	347	841	12	143	381	681	595	.87	21
Dracut,	1,996	1,638,890	11	383	229	411	7	17	241	302	268	.88	11
Dunstable,	416	290,410	3	61	41	72	—	6	38	51	48	.94	3
Everett,	11,063	9,934,300	46	2,541	1,746	3,247	—	333	1,746	2,337	2,180	.93	55
Frammingham,	9,239	8,212,272	43	1,665	1,243	2,133	3	186	1,250	1,695	1,582	.93	46
Groton,	2,057	3,049,664	14	390	243	392	19	41	243	373	314	.84	15
Holliston,	2,619	1,552,231	15	464	304	617	10	49	319	386	353	.91	16
Hopkinton,	4,048	2,224,185	21	628	375	753	19	80	400	612	570	.89	20

SCHOOL RETURNS.

xliii

Maynard, .	2,700	2,074,416	12	514	319	546	-	27	366	501	488	.91	13
Medford, .	11,079	11,241,080	42	1,949	1,221	2,583	-	498	1,562	2,065	1,929	.93	52
Melrose, .	8,519	8,596,565	35	1,546	1,320	1,987	-	287	914	1,731	1,610	.93	45
Natick, .	9,118	6,547,350	40	1,416	1,025	1,862	26	187	969	1,632	1,525	.93	48
Newton, .	24,379	40,381,569	94	4,570	2,847	4,548	4	660	2,647	3,908	3,628	.92	116
North Reading, .	874	538,904	6	152	90	179	5	17	120	135	122	.90	6
Pepperell, .	3,127	1,908,950	15	601	418	666	5	60	418	505	448	.88	15
Readings, .	4,088	3,070,906	16	666	395	822	7	91	409	684	636	.92	22
Sherborn, .	1,381	825,230	7	152	90	157	4	1	102	108	98	.90	8
Shirley, .	1,191	685,663	6	220	96	264	1	18	162	170	142	.84	7
Somerville, .	40,152	38,093,100	149	7,191	4,446	9,120	113	791	4,775	7,035	6,608	.93	186
Stoneham, .	6,155	3,696,305	23	919	539	1,059	13	136	555	883	835	.94	27
Stow, .	903	788,554	6	137	94	177	4	26	98	131	121	.92	6
Sudbury, .	1,197	1,079,765	8	186	132	197	-	28	132	191	178	.93	8
Tewksbury, .	2,515	1,422,399	10	306	205	440	7	26	231	310	280	.90	13
Townsend, .	1,750	1,126,182	11	244	168	321	2	23	172	264	239	.90	11
Tyngsborough, .	662	369,366	4	74	44	87	1	13	44	72	66	.91	4
Wakefield, .	6,982	5,002,495	26	1,580	780	1,319	2	150	780	1,288	1,175	.91	33
Waltham, .	18,707	17,616,756	54	2,982	1,747	2,409	4	247	1,343	2,035	1,975	.94	72
Watertown, .	7,073	7,770,079	21	1,306	784	1,119	1	133	615	868	810	.93	31
Wayland, .	2,060	1,457,830	11	332	228	357	6	19	228	346	310	.89	22
Westford, .	2,250	1,142,585	15	355	221	434	4	4	279	358	320	.89	15
Weston, .	1,664	3,004,466	8	174	154	207	7	26	154	225	205	.91	9
Wilmington, .	1,213	776,190	8	222	137	256	6	13	137	190	179	.94	8
Winchester, .	4,861	5,238,530	21	984	527	1,071	1	157	570	852	774	.90	31
Woburn, .	13,499	9,332,523	49	2,327	1,675	2,556	-	335	1,379	2,208	2,016	.91	54
Totals, .	431,167	\$399,237,733	1,464	75,396	47,486	81,178	705	8,300	44,919	64,992	59,988	.92	1,902

SCHOOL RETURNS.

xlv

Medford,	8	49	21	14	133	87	53	12	390	9-5	-	1	9	305	Taxation,	9-10	2,350 00
Melrose,	5	43	18	17	130	00	53	48	842	9-16	-	1	7	291	Taxation,	9-10	2,000 00
Natick,	5	55	27	20	105	11	41	33	371-5	9-5	-	1	5	177	Taxation,	10	1,550 00
Newton,	17	99	54	45	191	76	65	75	940	10	-	1	15	603	Taxation,	10	3,000 00
North Reading,	2	9	6	5	56	00	29	86	52-4	8-14	-	1	1	38	Taxation,	9	504 00
Pepperell,	1	14	11	7	100	00	38	57	138	9-4	-	1	1	58	Taxation,	10	1,000 00
Reading,	1	25	13	10	168	42	44	18	154-7	9-12	-	1	4	133	Taxation,	10	1,600 00
Sherborn,	1	10	-	-	34	00	35	00	57-15	8-5	-	1*	1	45	Part tax,	9-5	850 00
Shirley,	2	9	10	7	46	72	42	60	53-6	8-17	-	-	-	-	-	-	-
Somerville,	12	174	79	73	169	00	59	38	1,490	10	-	1	13	521	Taxation,	10	2,400 00
Stoneham,	3	29	5	5	156	00	44	00	199-5	8-13	-	1	3	97	Taxation,	9-10	1,500 00
Stow,	1	8	3	2	88	88	32	00	54	9	-	1	1	40	Part tax,	9	800 00
Sudbury,	1	15	10	10	105	88	37	60	66-7	8-5	1	1	1	34	Taxation,	6	900 00
Tewksbury,	1	19	5	3	83	33	38	06	88-17	8-17	-	1	2	42	Taxation,	9-15	840 00
Townsend,	1	12	4	2	70	00	33	40	89-5	8-2	-	1	1	39	Taxation,	10	700 00
Tyngsborough,	-	7	6	5	-	-	38	54	33-15	8-8	-	1	1	15	Part tax,	8-10	500 00
Wakefield,	1	92	11	7	180	00	47	50	260	10	-	1	5	119	Taxation,	10	1,800 00
Waltham,	8	64	31	28	134	37	57	46	490-6	9-1	-	1	8	207	Taxation,	10	2,000 00
Watertown,	6	26	7	4	141	00	58	20	202-1	9-13	-	1	4	90	Taxation,	9-15	2,000 00
Wayland,	4	10	8	7	80	00	38	00	94	8-10	-	-	-	-	-	-	-
Westford,	1	19	4	2	34	66	33	07	130-10	8-14	-	-	-	-	-	-	-
Weston,	1	10	2	-	144	00	41	90	72	9-12	-	-	2	48	Taxation,	9	1,300 00
Wilmington,	1	11	3	3	60	00	37	25	77	9-12	-	1	1	15	Taxation,	10	573 75
Winchester,	3	28	11	11	171	25	32	50	220	10	-	1	5	103	Taxation,	10	2,000 00
Woburn,	4	50	3	3	112	50	52	14	463	9-8	-	1	6	164	Taxation,	10	1,800 00
Totals,	180	1,925	809	689	\$142	67	\$51	42	13,849-17	8-19	5	47	205	6,600	-	449-9	\$67,767 75

• United with Sawin Academy.

MIDDLESEX COUNTY — CONTINUED.

TOWNS.	Amount raised by taxes and expended for schools, including board, fuel, care of rooms, for the school- year 1892-93.	Expense of supervision by school committee.	Salary of Superin- tendent of Public Schools.	Expense of printing reports, etc.	Expense of sundries, — books, stationery, etc.	Amount expended for transportation of pu- pils.	Amount expended for new school-houses.	Amount expended for alterations and per- manent improve- ments.	Amount expended for ordinary repairs.	Amount paid for all school purposes from money raised by tax- ation.
Acton, . . .	\$4,400 00	\$99 65	\$240 00	\$20 00	\$490 31	—	—	\$166 87	\$787 19	\$6,204 02
Arlington, . . .	21,007 17	275 00	1,500 00	—	1,511 43	—	—	429 33	300 00	25,022 93
Ashby, . . .	1,700 00	—	100 00	10 00	156 55	\$72 00	—	78 02	155 82	2,272 39
Ashland, . . .	6,400 00	60 00	500 00	—	500 00	142 40	—	117 41	—	7,719 81
Ayer, . . .	5,200 00	—	300 00	32 00	681 97	—	—	—	663 47	6,877 44
Bedford, . . .	2,293 29	33 00	78 16	—	275 34	810 00	—	—	118 90	3,608 69
Belmont, . . .	8,406 61	—	1,000 00	30 00	754 31	—	—	400 00	328 08	10,919 00
Billerica, . . .	5,513 58	180 00	362 77	—	744 09	599 15	—	—	146 98	7,546 57
Boxborough, . . .	800 00	—	50 00	—	176 60	—	—	—	—	1,026 60
Burlington, . . .	1,250 00	20 00	68 30	—	59 82	—	—	—	25 00	1,423 12
Cambridge, . . .	242,765 93	2,200 00	3,000 00	241 78	12,420 34	—	\$92,303 46	2,022 50	7,757 86	362,711 87
Carlisle, . . .	982 14	—	90 98	—	165 02	44 25	—	—	48 68	1,331 07
Chelmsford, . . .	6,000 00	50 00	200 00	55 10	600 00	—	—	—	190 78	7,095 88
Concord, . . .	13,850 00	79 00	500 00	—	1,171 00	1,403 00	—	—	507 00	17,516 00
Dracut, . . .	4,131 12	—	466 56	—	400 00	250 00	—	—	100 00	7,758 74
Dunstable, . . .	650 00	32 00	—	6 65	68 15	201 00	—	—	5 53	963 33
Everett, . . .	35,576 22	50 00	1,650 00	18 00	6,869 71	—	—	—	2,219 02	79,255 73
Frammingham, . . .	26,500 00	—	1,300 00	125 00	3,000 00	800 00	29,618 02	—	2,100 00	33,725 00
Groton, . . .	6,200 00	200 00	—	30 00	611 05	30 00	—	—	288 71	7,359 76
Holliston, . . .	6,800 00	105 00	584 38	65 75	639 56	263 84	—	—	171 00	8,929 53
Hopkinton, . . .	8,000 00	—	750 00	—	543 72	871 73	—	—	—	10,919 53
Hudson, . . .	11,000 00	900 00	—	82 40	555 52	312 60	—	—	648 23	13,919 53

SCHOOL RETURNS.

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Maynard, . . .	6,257 55	225 00	1,000 00	20 00	5,106 01	500 00	-	1,398 96	2,419 98	52,946 30
Medford, . . .	41,587 73	400 00	2,000 00	87 00	3,958 16	60 00	-	777 72	1,874 73	66,497 84
Melrose, . . .	33,090 42	-	2,000 00	-	1,279 92	-	-	-	1,734 28	29,619 65
Natick, . . .	25,306 98	-	1,298 47	-	9,946 96	-	-	-	330 41	163,190 11
Newton, . . .	114,786 24	499 96	3,441 63	112 29	300 00	-	-	17,072 62	25 00	2,718 62
North Reading, . . .	1,850 00	64 00	254 62	25 00	300 00	200 00	-	2,000 00	150 00	19,662 26
Pepperell, . . .	7,700 00	-	390 00	38 30	683 96	-	-	675 00	275 00	13,386 14
Reading, . . .	11,000 00	400 00	-	35 00	951 14	-	-	-	79 80	3,159 64
Sherborn, . . .	2,525 00	188 75	-	15 00	224 09	132 00	-	-	92 12	3,212 95
Shirley, . . .	2,300 00	150 00	150 00	59 50	366 33	85 00	-	10 00	17,784 18	167,428 78
Somerville, . . .	124,701 41	1,550 00	2,500 00	23 00	9,441 81	-	-	11,478 38	924 18	17,575 20
Stoneham, . . .	14,900 00	450 00	-	7 00	1,294 02	-	-	-	141 16	1,928 47
Stow, . . .	1,300 00	-	100 00	30 00	237 81	-	-	119 50	300 00	5,799 20
Sudbury, . . .	3,400 00	141 75	300 00	50 00	458 99	135 00	300 00	655 73	7 75	5,449 22
Tewksbury, . . .	4,500 00	150 00	424 20	25 00	400 00	-	-	-	100 00	4,702 64
Townsend, . . .	3,500 00	-	150 00	15 00	272 98	425 25	-	239 41	87 27	5,672 63
Tyngsborough, . . .	1,200 00	-	249 98	14 83	130 65	675 00	-	320 90	1,216 59	28,498 42
Wakefield, . . .	21,200 00	500 00	-	25 00	2,000 00	-	-	556 83	3,000 00	71,180 22
Waltham, . . .	54,444 70	60 15	2,300 00	29 75	2,377 52	968 10	-	-	1,578 24	26,284 28
Watertown, . . .	21,684 97	300 00	500 00	-	1,394 67	826 40	-	-	196 73	6,907 72
Wayland, . . .	5,700 00	157 50	-	-	602 69	162 00	-	88 80	786 05	6,610 98
Westford, . . .	4,800 00	11 00	162 00	-	451 93	-	-	450 00	-	8,450 00
Weston, . . .	7,400 00	150 00	-	-	400 00	500 00	-	-	121 05	4,272 40
Wilmington, . . .	3,344 71	105 00	285 34	20 00	396 30	-	-	1,500 00	518 59	35,800 14
Winchester, . . .	19,119 48	-	1,000 00	24 00	3,319 82	318 25	10,000 00	-	1,022 17	56,919 22
Woburn, . . .	36,936 29	-	2,000 00	75 00	3,091 57	125 00	13,669 19	-	-	-
Totals, . . .	\$1,312,861 00	\$11,151 76	\$37,697 72	\$2,083 00	\$118,191 08	\$13,901 87	\$385,005 49	\$48,382 10	\$72,793 85	\$1,997,067 87

MIDDLESEX COUNTY — CONCLUDED.

TOWNS.	Amount of voluntary contributions for Public Schools.	Amount of local funds, can be appropriated the income of which only for the support of Schools and Academies.	Income of local funds.	Income of surplus revenue and other funds, including the dog tax, used at the option of the town.	ACADEMIES AND PRIVATE SCHOOLS.						Town's share of school-fund payable Jan. 25, 1888.	How much of said fund was used for apparatus and books of reference.
					No. of Academies.	Whole No. attending for the year.	Amount of tuition paid.	No. of Private Schools.	Whole No. attending for the year.	Estimated amount of tuition.		
Acton, .	-	\$5,354 00	\$321 34	-	-	-	-	2	101	\$500 00	\$268 31	-
Arlington, .	-	-	-	-	-	-	-	-	-	-	-	-
Ashby, .	-	-	-	-	-	-	-	-	-	-	368 31	\$40 00
Ashland, .	-	-	-	-	-	-	-	-	-	-	234 64	-
Ayer, .	-	-	-	\$203 69	-	-	-	-	-	-	234 64	-
Bedford, .	-	-	-	-	-	-	-	-	-	-	334 64	74 10
Belmont, .	-	-	-	-	1	7	-	1	40	300 00	-	-
Billerica, .	-	-	-	-	-	-	-	1	-	9,000 00	234 64	-
Boxborough, .	-	-	-	-	-	-	-	-	-	-	443 31	-
Burlington, .	-	-	1,738 07	94 39	-	-	-	-	-	-	367 20	14 00
Cambridge, .	-	10,000 00	30 00	-	-	-	-	14	2,235	39,350 00	-	60 00
Carlisle, .	-	500 00	-	-	-	-	-	-	-	-	387 20	-
Chelmsford, .	-	-	-	381 98	-	-	-	-	-	-	924 41	-
Concord, .	-	6,050 00	360 00	487 75	-	-	-	2	29	6,500 00	-	-
Dracut, .	-	-	-	-	-	-	-	-	-	-	212 20	-
Dunstable, .	-	-	-	-	-	-	-	-	-	-	409 64	-
Everett, .	-	-	-	-	-	-	-	1	40	3,500 00	-	-
Frammingham, .	-	-	-	1,088 31	1	157	-	1	10	100 00	-	-
Groton, .	\$48 00	40,500 00	2,000 00	-	2	130	\$60,600 00	-	-	-	218 31	-
Holliston, .	-	-	-	-	-	-	-	-	-	-	268 31	-
Hopkinton, .	50 00	5,836 00	350 16	-	-	-	-	-	-	-	103 00	-
Hudson, .	-	-	-	356 97	-	-	-	1	20	100 00	-	-

SCHOOL RETURNS.

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Medford, .	-	-	-	-	-	2	25	900 00	-	-	-
Melrose, .	-	-	-	-	-	-	-	-	-	-	-
Natick, .	-	-	-	-	-	-	-	-	-	-	-
Newton, .	-	-	-	-	-	5	180	12,642 00	-	-	-
North Reading,	-	-	-	-	-	-	-	-	-	-	-
Pepperell,	-	-	-	-	-	-	-	-	-	-	-
Reading, .	-	-	-	-	-	-	-	-	-	-	-
Sherborn, .	-	-	-	-	-	1	8	150 00	-	-	-
Shirley, .	-	-	-	-	-	-	-	-	-	-	-
Somerville,	-	-	-	-	-	1	640	-	-	-	-
Stoneham,	-	-	-	-	-	-	-	-	-	-	-
Stow, .	-	-	-	-	-	-	-	-	-	-	-
Sudbury, .	-	-	-	-	-	-	-	-	-	-	-
Tewksbury,	-	-	-	-	-	-	-	-	-	-	-
Townsend,	-	-	-	-	-	-	-	-	-	-	-
Tyngsborough,	-	-	-	-	-	-	-	-	-	-	-
Wakefield,	-	-	-	-	-	-	-	-	-	-	-
Waltham, .	-	-	-	-	-	3	1,060	286 00	-	-	-
Watertown,	-	-	-	-	-	1	480	3,250 00	-	-	-
Wayland, .	-	-	-	-	-	-	-	-	-	-	-
Westford, .	-	-	-	-	-	-	-	-	-	-	-
Weston, .	-	-	-	-	-	-	-	-	-	-	-
Wilmington,	-	-	-	-	-	-	-	-	-	-	-
Winchester,	-	-	-	-	-	-	-	-	-	-	-
Woburn, .	-	-	-	-	-	1	15	200 00	-	-	-
Totals, .	\$98 00	\$131,967 78	\$8,780 46	\$6,152 11	13	988	\$108,542 00	\$97,810 00	\$9,618 06	\$593 62	-

NANTUCKET COUNTY.

TOWNS.	Population - U. S. Census, 1880.	Valuation - 1882.	No. of Public Schools.	No. of persons in town May 1, 1882, between 5 and 15 years of age.	No. of persons in town May 1, 1892, between 8 and 14 years of age.	No. of different pupils of all ages in the Public Schools during the school-year.	No. attending within the year under 5 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 8 and 14 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The percent. of attendance based upon the average membership.	No. of teachers required by the Public Schools.
Nantucket,	3,268	\$3,009,406	11	495	395	377	10	31	236	925	294	.90	12

NORFOLK COUNTY.

Avon,	1,384	\$694,144	5	264	172	290	-	16	170	227	202	.89	8
Bellingham,	1,334	664,500	9	230	142	264	5	7	162	206	180	.87	9
Brantree,	4,848	4,222,800	22	832	452	831	-	92	439	736	684	.92	29
Brookline,	12,103	58,180,600	56	2,156	1,338	2,378	184	250	1,338	1,936	1,761	.90	81
Canton,	4,538	3,825,072	15	751	422	570	3	42	297	423	397	.93	19
Cohasset,	2,448	4,071,407	11	380	244	443	-	36	218	371	337	.90	15
Dedham,	7,123	5,930,340	38	1,177	750	1,233	4	114	742	1,153	1,048	.90	41
Dover,	727	747,698	5	96	88	116	1	11	65	89	80	.89	5
Foxborough,	2,938	1,549,348	13	461	292	538	1	50	308	437	399	.91	14
Franklin,	4,831	2,645,235	20	1,044	645	883	-	78	632	762	682	.90	22
Holbrook,	2,474	1,141,057	12	427	255	500	7	30	289	448	393	.87	14
Hyde Park,	10,193	8,125,291	35	1,924	1,308	1,997	7	488	1,046	1,535	1,407	.91	47
Medfield,	1,498	1,256,388	6	204	124	235	-	39	131	189	168	.86	6
Medway,	2,985	1,215,225	15	627	217	695	2	70	381	481	411	.92	14
Millic,	786	719,285	5	154	116	172	-	11	65	89	80	.89	5

SCHOOL RETURNS.

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Walpole, .	2,604	2,020,373	13	382	278	545	-	48	344	421	377	.89	14
Wellfleet, .	8,600	6,522,575	12	520	321	578	2	79	236	458	390	.85	19
Weymouth, .	10,866	6,497,371	47	1,746	1,058	2,254	-	237	1,095	1,848	1,702	.92	65
Wrentham, .	2,566	1,374,626	15	453	304	557	6	51	322	449	384	.85	15
Totals, .	118,950	\$147,912,664	523	21,946	13,542	22,950	258	2,307	12,528	19,224	17,563	.91	640

NANTUCKET COUNTY — CONTINUED.

TOWNS.	Whole No. of different male teachers in school-year.	Whole No. of different female teachers in school-year.	No. of teachers who have attended Normal Schools.	No. of teachers who have graduated from Normal Schools.	A'v'e wages per month of male teachers in Public Schools.	A'v'e wages per month of female teachers in Public Schools.	Aggregate of months all the Public Schools have been kept during the school-year.	Average No. of months the Public Schools have been kept for the entire year.	No. of Schools kept less than six months each.	HIGH SCHOOLS.				
										No. of High Schools.	No. of teachers.	No. of pupils.	How supported.	Length. Months.
Nantucket, . .	1	11	2	2	\$100 00	\$32 50	116	10-10	-	1	2	71	Taxation,	10
														\$1,000 00

NORFOLK COUNTY — CONTINUED.

Avon,	1	7	4	4	\$88 88	\$36 67	45	9	-	-	-	-	-	-	-
Bellingham,	1	12	8	4	40 88	36 50	76-10	8-10	-	1	3	71	Taxation,	10	\$1,200 00
Braintree,	2	28	7	7	105 00	46 45	220	10	-	1	7	134	Taxation,	9-1	3,000 00
Brookline,	6	75	29	27	160 00	63 44	440	7-17	-	1	2	32	Taxation,	10	1,500 00
Canton,	2	17	2	2	115 00	44 00	150	10	-	1	3	76	Taxation,	10	1,300 00
Cohasset,	3	12	6	6	138 00	40 00	110	10	-	1	4	103	Taxation,	9-16	1,800 00
Dedham,	7	40	15	15	124 00	48 68	343	9	-	1	1	18	Taxation,	9-10	385 00
Dover,	-	7	4	4	-	36 40	46-5	9-5	-	1	1	2	Taxation,	9	1,250 00
Foxborough,	1	15	4	1	138 88	40 00	117	9	-	1	2	48	Taxation,	10	1,000 00
Franklin,	1	29	9	8	100 00	40 00	179-10	8-19	1	1	3	57	Taxation,	10	1,170 00
Holbrook,	1	19	5	3	117 00	38 80	117	9-15	-	1	6	87	Taxation,	10	2,000 00
Hyde Park,	8	39	18	13	123 65	48 90	347-2	9-18	-	1	1	49	Taxation,	9-10	850 00
Medfield,	3	8	3	3	89 60	43 15	58-10	9-15	-	1	1	74	Taxation,	10	1,000 00
Medway,	1	14	6	3	100 00	33 93	186	9-1	-	1	2	74	Taxation,	10	1,000 00
Millis,	3	9	6	5	50 00	32 00	45	0	-	1	2	74	Taxation,	10	1,000 00

SCHOOL RETURNS.

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Stoughton, .	1	22	4	4	150 00	40 00	148-10	9-5	-	1	2	51	Taxation,	9-10	1,120 00
Walpole, .	3	16	9	7	105 45	42 16	128-16	9-18	-	1	2	59	Taxation,	10	1,120 00
Wellesley, .	3	22	8	5	90 00	52 63	115-4	9-12	-	1	3	79	Taxation,	9-18	2,000 00
Weymouth, .	9	46	10	7	102 22	49 00	451-1	9-11	-	2	6	185	Taxation,	9-8	1,200 00
Wrentham, .	4	13	3	2	70 00	36 66	138-17	9-5	-	2	1	50	Taxation,	9-10	1,200 00
															760 00
															760 00
Totals, .	81	631	243	205	\$113 34	\$46 62	4,789-10	9-5	1	25	70	1,888	-	222-14	\$33,057 40

NANTUCKET COUNTY — CONTINUED.

TOWNS.	Whole No. of different male teachers in school-year.	Whole No. of different female teachers in school-year.	No. of teachers who have attended Normal Schools.	No. of teachers who have graduated from Normal Schools.	Av'ge wages per month of male teachers in Public Schools.	Av'ge wages per month of female teachers in Public Schools.	Aggregate of months all the Public Schools have been kept during the school-year.	Average No. of months the Public Schools have been kept for the entire year.	No. of Schools kept less than six months each.	HIGH SCHOOLS.					Salary of Principal.
										No. of High Schools.	No. of teachers.	No. of pupils.	How supported.	Months. Days.		Length.
Nantucket. . .	1	11	2	2	\$100 00	\$32 50	116	10-10	-	1	2	71	Taxation,	10	\$1,000 00

NORFOLK COUNTY — CONTINUED.

[illegible]

SCHOOL RETURNS.

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[illegible]

NANTUCKET COUNTY — CONTINUED.

TOWNS.	Amount raised by taxes and expended for schools including board, fuel, care of fires and school-rooms, for the school-year 1892-93.	Expense of supervision by school committee.	Salary of Superintendent of Public Schools.	Expense of printing reports, etc.	Expense of sundries, — books, stationery, etc.	Amount expended for transportation of pupils.	Amount expended for new school-houses.	Amount expended for alterations and permanent improvements.	Amount expended for ordinary repairs.	Amount paid for all school purposes from money raised by taxation.
Nantucket,	\$5,211 51	\$100 00	—	\$24 00	\$387 87	—	—	—	\$117 71	\$5,841 09

NORFOLK COUNTY — CONTINUED.

Avon,	\$3,443 46	\$140 75	—	\$25 00	\$356 44	—	—	—	\$141 85	\$4,107 50
Bellingham,	2,450 00	55 00	\$85 00	25 00	328 67	—	—	—	—	2,943 67
Braintree,	12,791 39	—	1,183 33	—	1,274 58	\$167 38	\$11,720 60	—	986 87	28,124 15
Brookline,	87,867 64	550 00	3,500 00	50 00	4,648 67	—	47,096 00	\$6,585 26	2,496 34	152,793 91
Canton,	11,820 00	25 00	800 00	50 00	500 00	175 00	—	—	1,170 00	14,540 00
Cohasset,	8,796 26	—	700 00	—	743 23	896 11	—	—	447 72	11,583 32
Dedham,	28,384 17	160 01	1,900 00	—	5,255 78	—	3,360 00	1,618 67	206 87	40,885 50
Dover,	1,925 00	—	50 00	9 50	200 00	—	—	—	56 50	2,241 00
Foxborough,	6,250 00	175 00	420 00	51 70	669 84	844 36	—	—	73 46	7,984 36
Franklin,	11,150 00	—	1,500 00	10 75	1,250 00	—	3,200 00	—	600 00	17,710 75
Holbrook,	6,208 04	280 00	—	—	851 96	—	—	—	60 00	7,650 00
Hyde Park,	31,505 68	750 00	—	25 00	2,009 13	—	—	10,869 31	3,734 06	43,893 18
Medfield,	3,200 00	110 00	—	5 00	500 00	—	—	99 59	100 00	4,014 59
Medway,	6,442 58	181 50	132 81	25 00	810 51	380 60	—	2,225 00	388 52	10,336 52
Millis,	2,332 31	—	206 88	16 60	321 53	270 00	—	—	75 00	3,222 32
Milton,	21,866 13	—	2,181 25	—	3,175 79	947 50	—	—	1,361 53	29,432 20
Needham,	10,400 00	280 00	—	29 50	767 83	—	—	252 41	357 99	12,087 73

SCHOOL RETURNS.

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Norfolk,	1,800 00	97 00	40 00	12 00	315 58	-	-	-	-	74 83	2,339 41
Norwood,	14,158 11	-	1,400 00	25 00	876 79	-	-	11,100 00	842 49	394 46	28,796 85
Quincy,	57,487 00	-	2,200 00	60 00	8,249 00	850 00	-	2,800 00	-	2,270 67	73,916 67
Randolph,	10,518 49	370 00	-	-	11 32	-	-	1,546 46	500 00	100 00	13,046 27
Sharon,	3,700 00	25 00	200 00	-	750 00	-	-	-	1,000 00	300 00	5,975 00
Stoughton,	10,173 02	215 25	600 00	-	1,768 48	-	-	-	2,262 74	520 47	16,539 96
Walpole,	8,000 00	-	500 00	25 00	691 16	416 91	-	-	732 24	412 29	10,777 60
Wellesley,	12,324 45	225 00	-	-	1,131 43	321 45	-	20,500 00	-	325 95	34,828 28
Weymouth,	31,429 89	707 69	1,800 00	81 77	3,130 30	999 03	-	-	500 00	4,319 59	42,968 27
Wrentham,	7,700 00	504 29	-	11 05	575 53	238 65	-	-	58 35	424 29	9,512 16
Totals,	\$114,123 62	\$4,851 49	\$19,299 27	\$537 87	\$41,163 55	\$5,956 99	\$101,323 06	\$27,796 06	\$21,399 26	\$636,451 17	

NANTUCKET COUNTY — CONCLUDED.

TOWNS.	Amount of voluntary contributions for Public Schools.	Amount of local funds, the income of which can be appropriated only for the support of Schools and Academies.	Income of local funds.	Income of surplus revenue and other funds, including the dog tax, used at the option of the town.	ACADEMIES AND PRIVATE SCHOOLS.						Town's share of school-fund payable Jan. 20, 1888.	How much of said fund was used for apparatus and books of reference.
					No. of Academies.	Whole No. attending for the year.	Amount of tuition paid.	No. of Private Schools.	Whole No. attending for the year.	Estimated amount of tuition.		
Nantucket,	—	—	—	\$311 00	1	80	\$500 00	—	—	—	—	—

NORFOLK COUNTY — CONCLUDED.

Avon,	—	—	—	\$350 47	—	—	—	—	—	—	\$334 64	—
Bellingham,	—	—	—	774 41	1	110	\$1,098 00	2	28	\$550 00	334 64	—
Braintree,	—	\$5,000 00	\$250 00	—	—	—	—	5	100	7,880 00	—	—
Brookline,	—	—	—	647 61	—	—	—	1	400	—	—	—
Canton,	—	—	—	239 07	—	—	—	—	—	—	—	—
Cohasset,	—	1,000 00	40 40	—	—	—	—	—	—	—	—	—
Dedham,	—	1,050 00	42 00	—	—	—	—	3	62	1,500 00	—	—
Dover,	—	—	—	173 38	—	—	—	—	—	—	368 31	—
Foxborough,	—	—	—	503 78	—	—	—	1	19	—	234 65	—
Franklin,	—	—	—	662 95	1	122	3,016 83	—	—	—	218 31	\$54 57
Holbrook,	—	—	—	268 64	—	—	—	—	—	—	268 31	—
Hyde Park,	—	—	—	—	—	—	—	2	517	—	—	—
Medfield,	—	3,760 20	206 01	—	—	—	—	1	9	266 00	268 31	—
Medway,	—	—	—	367 74	—	—	—	1	17	300 00	234 64	—
Millis,	—	—	—	—	—	—	—	1	16	96 00	334 64	16 60
Milton,	—	75,000 00	2,500 00	—	—	110	13,365 00	2	20	1,000 00	—	—
Needham,	250 00	1,200 00	—	—	1	—	—	2	—	—	218 31	—

SCHOOL RETURNS.

lvii

Norfolk, .	-	-	140 76	-	-	-	-	1	18	-	400 00	394 64	-
Norwood, .	-	-	-	-	-	-	-	1	-	-	-	184 64	117 64
Quincy, .	60,000 00	2,600 00	-	-	-	-	-	1	-	-	-	-	-
Randolph, .	13,200 00	875 00	508 00	-	-	-	-	-	-	-	-	184 64	-
Sharon, .	2,360 00	141 60	163 00	-	-	-	-	-	-	-	-	234 64	-
Stoughton, .	-	-	-	-	-	-	-	1	250	-	-	184 64	-
Walpole, .	-	-	424 80	-	-	-	-	-	-	-	-	268 31	41 91
Wellesley, .	-	-	90 00	-	-	-	-	3	125	-	9,000 00	-	-
Weymouth, .	-	300 00	808 89	-	-	-	-	-	-	-	-	-	-
Wrentham, .	1,818 26	107 33	460 43	-	-	-	-	-	-	-	-	924 41	55 00
Totals, .	\$695 00	\$7,062 34	\$6,563 88	4	342	\$17,479 83	25	1,581	\$20,992 00	\$4,580 68	\$285 72		

BOARD OF EDUCATION.

NANTUCKET COUNTY — CONCLUDED.

TOWNS.	Amount of voluntary contributions for Public Schools.	Amount of local funds, the income of which can be appropriated only for the support of Schools and Academies.	Income of local funds.	Income of surplus revenue and other funds, including the dog tax, used at the option of the town.	ACADEMIES AND PRIVATE SCHOOLS.						Town's share of school-fund payable Jan. 25, 1888.	How much of said fund was used for apparatus and books of reference.
					No. of Academies.	Whole No. attending for the year.	Amount of tuition paid.	No. of Private Schools.	Whole No. attending for the year.	Estimated amount of tuition.		
Nantucket,	1	1	1	\$211 00	1	80	\$500 00	1	1	1	1	1

NORFOLK COUNTY — CONCLUDED.

[illegible]

SCHOOL RETURNS.

lvii

Norfolk, . . .	-	-	140 76	-	-	-	-	-	1	18	-	400 00	394 64	-
Norwood, . .	-	-	-	-	-	-	-	-	1	-	-	-	184 64	117 64
Quincy, . . .	-	60,000 00	-	2,600 00	-	-	-	-	1	-	-	-	-	-
Randolph, . .	-	13,200 00	508 00	875 00	-	-	-	-	-	-	-	-	184 64	-
Sharon, . . .	-	2,360 00	153 00	141 60	-	-	-	-	-	-	-	-	234 64	-
Stoughton, . .	45 00	-	-	-	-	-	-	-	1	250	-	-	184 64	-
Walpole, . . .	-	-	424 80	-	-	-	-	-	-	-	-	-	268 31	41 91
Wellesley, . .	-	-	90 00	-	-	-	-	-	3	125	-	9,000 00	-	-
Weymouth, . .	-	-	808 89	300 00	-	-	-	-	-	-	-	-	-	-
Wrentham, . .	-	1,818 26	450 43	107 83	-	-	-	-	-	-	-	-	324 41	55 00
Totals, . . .	\$695 00	\$164,388 46	\$6,563 88	\$7,062 84	4	342	\$17,479 83	25	1,581	\$20,992 00	\$4,580 68	\$285 72		

PLYMOUTH COUNTY.

TOWNS.	Population—U. S. Cen- sus, 1880.	Valuation—1892.	No. of Public Schools.	No. of persons in town May 1, 1892, between 5 and 15 years of age.	No. of persons in town May 1, 1892, between 16 and 18 years of age.	No. of different pupils of all ages in the Pub- lic Schools during the school-year.	No. attending within the year under 5 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 5 and 14 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The per cent. of attend- ance based upon the average membership.	No. of teachers required by the Public Schools.
Abington, .	4,260	\$2,222,302	16	702	412	843	4	76	439	675	624	.92	24
Bridgewater, .	4,219	2,369,229	17	487	259	614	3	48	370	498	455	.91	19
Brockton, .	27,294	19,172,307	105	4,788	2,725	5,067	—	582	2,338	4,278	3,968	.92	108
Carver, .	994	701,030	9	147	96	188	1	26	105	153	132	.86	9
Duxbury, .	1,908	1,242,019	10	276	149	345	—	35	201	272	249	.91	11
East Bridgewater, .	2,911	1,488,939	14	443	245	494	4	51	274	449	410	.91	16
Halifax, .	562	264,168	4	87	62	97	2	8	62	77	65	.84	4
Hanover, .	2,093	1,228,504	8	305	176	336	2	18	221	278	255	.91	10
Hanson, .	1,267	604,559	8	174	117	205	1	8	135	170	144	.84	8
Hingham, .	4,564	3,923,672	15	587	368	727	7	96	430	655	584	.89	21
Hull, .	989	2,580,285	4	103	64	120	1	3	73	90	76	.84	4
Kingston, .	1,659	1,503,070	7	250	148	315	4	33	168	268	247	.92	9
Lakeville, .	935	516,813	7	134	86	140	1	6	86	108	79	.73	7
Marion, .	871	1,439,170	7	153	131	128	—	8	129	115	106	.92	7
Marshfield, .	1,713	1,225,325	10	213	138	270	—	32	145	226	209	.92	10
Matapoisett, .	1,148	1,545,801	7	166	104	159	4	18	104	137	127	.92	6
Middleborough, .	6,065	3,764,261	23	927	549	1,072	8	106	594	841	734	.87	27
Norwell, .	1,635	889,599	10	213	139	256	10	21	147	209	180	.86	11
Pembroke, .	1,320	674,190	8	192	96	137	—	1	97	175	148	.84	8
Plymouth, .	7,314	5,953,600	34	1,382	543	1,633	1	151	543	1,452	1,374	.94	40
Plympton, .	597	301,168	3	79	45	82	2	9	45	66	48	.72	3
Rochester, .	1,012	496,450	6	160	101	167	—	7	160	123	93	.75	6
Rockland, .	5,213	2,841,134	21	838	551	999	—	108	581	898	823	.92	27

SCHOOL RETURNS.

lix

Scituate, . . .	2,318	1,974,890	11	437	272	494	3	80	263	352	323	.91	14
Wareham, . . .	3,451	1,815,171	18	495	342	552	4	57	363	444	400	.90	19
West Bridgewater, . .	1,917	1,094,632	10	279	193	295	3	3	202	233	210	.90	10
Whitman, . . .	4,441	3,342,560	16	838	525	951	4	84	535	782	714	.91	18
Totals, . . .	92,700	\$65,169,898	408	14,855	8,636	16,576	69	1,620	9,310	14,024	12,783	.91	456

SUFFOLK COUNTY.

Boston, . . .	448,477	\$898,975,704	581	73,176	46,098	70,553	1,435	6,402	35,987	62,130	55,203	.88	1,444
Chelsea, . . .	27,909	21,413,285	80	4,763	2,797	5,063	—	745	2,780	3,368	3,505	.90	99
Revere, . . .	5,668	5,870,745	24	1,265	861	1,262	—	68	506	846	796	.94	26
Winthrop, . . .	2,726	4,231,440	12	445	315	567	—	43	298	428	389	.90	17
Totals, . . .	484,780	\$925,491,174	697	79,649	50,071	77,445	1,435	7,258	39,571	67,272	59,893	.89	1,586

BOARD OF EDUCATION.

PLYMOUTH COUNTY — CONTINUED.

TOWNS.	Whole No. of different male teachers in school-year.	Whole No. of different female teachers in school-year.	No. of teachers who have attended Normal Schools.	No. of teachers who have graduated from Normal Schools.	Average wages per month of male teachers in Public Schools.	Average wages per month of female teachers in Public Schools.	Aggregate of months all the Public Schools have been kept during the school-year.	Average No. of months the Public Schools have been kept for the entire year.	No. of Schools kept less than six months each.	HIGH SCHOOLS.					
										No. of High Schools.	No. of teachers.	No. of pupils.	How supported.	Months.	Lessons.
Abington.	-	32	17	16	\$50 78	141-10	8-16	-	1	8	84	Taxation,	10	\$1,000 00	
Bridgewater.	2	21	19	19	\$100 00	136-3	8-1	-	1	3	61	Taxation,	10	1,300 00	
Brookton.	14	100	56	48	136 50	1,050	10	-	1	11	376	Taxation,	10	2,000 00	
Carver.	2	11	2	1	30 00	71-10	7-18	-	1	2	81	-	-	-	
Duxbury.	2	14	2	1	67 50	91-1	9-2	-	1	2	81	Part tax.	10	1,000 00	
E. Bridgewater.	1	22	13	12	110 00	127	9-1	-	1	2	70	Taxation,	10	1,100 00	
Halifax.	6	4	4	-	32 00	34-1	8-10	-	1	2	61	-	-	-	
Hanover.	1	13	6	4	80 00	77-5	9-13	-	1	2	61	Taxation,	10	800 00	
Hanson.	13	5	5	5	32 50	72	9	-	1	4	116	-	-	-	
Hingham.	7	17	10	9	94 00	40 26	150	10	1	4	16	Taxation,	10	1,600 00	
Hull.	4	2	2	2	67 00	39-5	9-16	-	1	2	56	-	-	-	
Kingston.	2	10	7	5	85 00	65-10	9-7	-	1	2	6	Taxation,	10	1,000 00	
Lakeville.	1	15	3	3	28 00	50	7-2	1	-	-	-	-	-	-	
Marion.	1	7	-	-	36 28	63	9	-	-	-	-	-	-	-	
Marshfield.	1	12	3	3	76 85	33 33	90	9	1	1	39	Taxation,	9	691 67	
Matapoisett.	2	9	-	-	89 57	57-10	8-4	1	1	1	25	Part tax.	9	750 00	
Middleborough.	2	29	10	8	112 00	37 00	230	10	1	3	134	Taxation,	10	1,300 00	
Norwell.	1	16	7	4	84 21	31 20	95	9-10	1	2	42	Taxation,	9-10	800 00	
Pembroke.	1	11	5	5	31 00	72	9	-	1	6	175	-	-	-	
Plymouth.	4	50	8	4	100 00	41 94	340	10	1	1	27	Taxation,	10	1,500 00	
Plymouth.	2	6	4	2	44 00	36 00	27-1	9-7	1	1	27	Taxation,	9	396 00	
Rochester.	-	8	2	2	34 00	54	9	-	1	1	105	-	-	-	
Rockland.	6	21	14	8	66 66	42 85	210	10	1	3	105	Taxation,	10	1,300 00	

SCHOOL RETURNS.

[illegible]

SUFFOLK COUNTY — CONTINUED.

Boston,	.	186	1,392	950	\$254 26	\$72 95	5,740	9-17	-	11	131	9,947	Taxation,	10	{ \$26,460 00 6,396 00 2,880 00 2,400 00 - 1,000 00
Chelsea,	.	7	92	15	14	181 42	56 36	800	10	1	12	358	Taxation,	9	-
Revere,	.	3	23	10	8	73 33	46 50	240	10	-	-	63	-	-	-
Winthrop,	.	2	15	10	9	108 31	45 43	113-5	9-8	1	3	30	Taxation,	9-15	-
Totals, .	.	198	1,462	985	981	\$247 41	\$71 20	6,898-5	9-16	13	146	4,388	-	28-15	\$99,076 00

PLYMOUTH COUNTY — CONTINUED.

TOWNS.	Amount raised by taxes and expended for schools, including wages of teachers, board, fuel, care of fires and school-rooms, for the school-year 1892-93.	Expense of supervision by school committee.	Salary of Superintendent of Public Schools.	Expense of printing reports, etc.	Expense of sundries, — books, stationery, etc.	Amount expended for transportation of pupils.	Amount expended for new school-houses.	Amount expended for alterations and permanent improvements.	Amount expended for ordinary repairs.	Amount paid for all school purposes from money raised by taxation.
Abington.	\$11,000 00	\$327 00	\$750 00	—	\$800 00	\$150 00	—	—	\$800 00	\$14,127 00
Bridgewater.	9,600 00	—	750 00	—	500 00	—	—	—	600 00	11,450 00
Brockton.	76,196 06	300 00	2,200 00	\$51 85	7,373 15	75 00	\$21,089 66	—	8,123 65	115,409 37
Carver.	1,650 00	80 00	—	15 00	200 99	100 00	—	—	214 41	2,260 40
Duxbury.	3,000 00	74 53	225 00	25 00	516 47	—	—	\$200 00	213 79	4,254 79
E. Bridgewater.	6,000 00	10 00	350 00	40 00	588 67	—	—	—	260 79	7,249 46
Halifax.	1,000 00	—	50 00	15 00	187 80	—	—	—	40 00	1,292 80
Hanover.	4,197 57	212 22	—	22 00	468 63	—	—	—	376 92	5,277 34
Hanson.	2,000 00	163 00	—	30 00	277 00	4 00	—	300 00	108 00	2,882 00
Hingham.	12,152 25	—	1,250 00	—	995 74	882 00	—	—	338 92	15,113 91
Hull.	2,440 75	90 00	175 00	—	326 22	237 00	—	548 89	21 69	3,339 55
Kingston.	4,400 00	—	250 00	25 00	503 61	284 24	—	385 58	37 13	5,885 56
Lakeville.	1,500 00	93 25	—	15 00	197 38	185 25	—	85 00	32 00	2,107 88
Marion.	2,200 00	107 20	—	6 00	284 72	—	—	—	247 69	2,844 61
Marshfield.	3,100 00	46 50	225 00	35 00	410 21	—	—	—	125 12	3,941 83
Mattapoisett.	2,200 00	99 40	—	—	347 70	98 00	—	—	202 94	2,948 04
Middleborough.	12,781 37	—	1,200 00	16 00	638 98	1,848 03	—	—	720 67	16,705 05
Norwell.	3,200 00	115 77	—	25 00	387 76	28 50	—	—	295 06	4,052 09
Pembroke.	1,900 00	118 00	—	19 00	274 00	10 00	—	—	103 00	2,424 00
Plymouth.	21,744 38	—	1,350 00	108 00	1,890 08	—	—	1,820 68	689 23	27,602 37
Plymouth.	900 00	—	50 00	—	76 76	—	—	—	14 50	1,041 26
Rochester.	1,610 00	83 01	—	10 00	180 87	50 00	—	—	52 00	1,975 87
Rockland.	13,500 00	159 00	1,500 00	115 00	1,000 00	—	15,000 00	—	1,000 00	32,265 00

SCHOOL RETURNS.

lxiii

Scituate, . .	5,200 00	109 25	300 00	372 30	380 00	-	149 25	292 50	6,833 30
Wareham, . .	6,700 00	391 25	-	797 72	-	-	-	268 43	8,157 40
W. Bridgewater, .	3,507 52	67 00	-	175 00	-	-	-	268 48	4,163 82
Whitman, . .	10,000 00	513 00	-	900 00	-	-	-	1,200 00	12,613 00
Totals, . .	\$223,669 90	\$3,150 37	\$601 85	\$20,671 76	\$3,632 02	\$36,089 66	\$3,439 40	\$16,641 92	\$318,667 70

SUFFOLK COUNTY — CONTINUED.

Boston, . .	\$1,613,386 87	\$56,566 83	\$3,000 00	\$89,346 92	-	\$569,700 75	-	\$221,905 53	\$2,558,406 90
Chelsea, . .	68,814 21	400 00	75 00	9,325 03	-	-	\$21,138 72	6,657 05	108,810 01
Revere, . .	20,051 00	-	90 00	1,200 00	\$18 00	20,625 95	180 00	468 00	44,132 95
Winthrop, . .	7,500 00	170 00	40 00	809 73	-	-	516 89	502 02	9,938 64
Totals, . .	\$1,709,752 08	\$57,136 83	\$3,205 00	\$101,181 68	\$18 00	\$590,326 70	\$21,835 61	\$229,532 60	\$2,721,288 50

PLYMOUTH COUNTY — CONCLUDED.

[illegible]

SCHOOL RETURNS.

lxv

Scituate, .	-	-	-	-	-	-	-	-	-	212 20	-
Wareham, .	-	-	-	-	-	-	-	-	-	268 31	25 00
W. Bridgewater, .	-	79,550 00	3,998 00	1	4,000 00	-	-	-	-	234 64	57 00
Whitman, .	-	-	-	-	-	-	1	15	300 00	-	-
Totals, .	\$215 00	\$194,867 00	\$9,486 81	7	\$1,540 00	199	10	648	\$6,630 00	\$6,106 06	\$128 16

SUFFOLK COUNTY — CONCLUDED.

Boston, .	-	\$62,434 49	\$3,044 87	38	\$58,114 48	12,000	85	3,300	\$560,000 00	-	-
Chelsea, .	-	-	-	-	-	-	2	35	2,000 00	-	-
Revere, .	-	-	-	-	-	-	-	-	-	-	-
Winthrop, .	-	-	-	-	450 60	-	-	-	-	-	-
Totals, .	-	\$62,434 49	\$3,044 87	38	\$58,565 08	12,000	87	3,335	\$562,000 00	-	-

WORCESTER COUNTY.

TOWNS.	Population—U. S. Census, 1890.	Valuation—1892.	No. of Public Schools.	No. of persons in town May 1, 1892, between 5 and 15 years of age.	No. of persons in town May 1, 1892, between 16 and 18 years of age.	No. of different pupils of all ages in the Public Schools during the school-year.	No. attending within the year under 15 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 16 and 18 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The per cent. of attendance based upon the average membership.	No. of teachers required by the Public Schools.
Ashburnham,	2,074	\$1,077,065	13	371	241	481	1	43	286	390	343	.87	14
Athol,	6,319	3,367,228	22	948	572	1,120	2	124	624	871	812	.93	25
Anbun,	1,532	513,016	8	310	192	336	4	10	197	243	209	.86	8
Barre,	2,239	1,489,206	13	379	223	435	1	67	248	329	303	.92	15
Berlin,	884	506,102	5	130	76	141	1	5	81	112	105	.93	5
Blackstone,	6,138	2,595,500	22	915	579	1,057	7	40	607	846	710	.80	25
Bolton,	827	480,181	7	131	85	151	1	14	99	119	108	.90	7
Boylston,	770	511,355	4	116	78	168	2	10	88	99	90	.90	4
Brookfield,	3,352	1,332,712	16	528	432	632	1	58	407	484	429	.87	18
Charlton,	1,847	926,380	13	301	162	314	6	26	282	241	213	.88	13
Clinton,	10,424	6,520,391	32	2,032	1,202	1,589	3	104	963	1,390	1,275	.91	35
Dana,	700	306,797	5	90	69	167	2	6	69	98	90	.90	5
Douglas,	1,908	1,046,565	13	381	272	414	5	27	272	297	278	.93	12
Dudley,	2,944	1,003,645	13	608	389	489	10	35	264	344	306	.88	13
Fitchburg,	22,037	17,065,545	76	4,238	2,514	4,210	21	336	2,374	3,125	2,885	.92	89
Gardner,	8,421	4,513,815	31	1,401	656	1,590	5	138	920	1,349	1,219	.90	36
Grafton,	5,002	2,330,030	24	936	481	1,054	2	38	628	812	739	.91	27
Hardwick,	2,922	1,416,160	14	514	317	512	9	19	207	318	284	.89	15
Harvard,	1,095	968,835	9	140	78	161	7	13	91	129	117	.90	9
Holden,	2,623	1,108,472	15	473	384	566	11	25	334	459	423	.92	16
Hopedale,	1,176	1,508,281	6	194	112	239	4	35	124	188	178	.94	9
Hubbardston,	1,346	677,621	8	169	139	242	1	26	139	189	175	.92	9
Lancaster,	2,201	2,958,704	10	334	201	369	5	38	211	269	244	.90	12
Leicester,	3,120	2,137,419	15	555	406	669	3	27	424	532	487	.91	19
Leominster,	7,209	4,897,314	28	1,039	706	1,463	4	149	726	1,116	1,052	.94	35
Lunenburg,	1,146	738,424	8	191	118	212	1	20	114	169	153	.91	8

SCHOOL RETURNS.

lxvii

Mendon,	919	541,633	7	129	89	160	1	14	107	144	135	.93	7
Millford,	8,780	5,069,854	33	1,293	835	1,524	2	198	829	1,222	1,132	.92	36
Millbury,	4,428	2,086,648	17	911	695	944	-	92	598	775	741	.95	19
New Braintree,	573	433,700	6	110	73	126	-	10	70	85	78	.91	6
Northborough,	1,952	1,252,048	9	310	203	397	-	38	212	331	298	.90	10
Northbridge,	4,603	2,562,143	18	806	574	978	-	80	661	764	711	.93	22
North Brookfield,	3,471	1,752,845	16	886	404	553	-	41	292	443	400	.90	18
Oakham,	738	345,839	5	85	66	149	3	31	81	107	99	.92	7
Oxford,	2,616	1,281,490	11	447	296	482	1	18	327	350	297	.84	12
Paxton,	445	293,530	3	58	36	67	1	6	36	53	47	.83	3
Petersham,	1,050	680,062	9	148	90	166	3	9	84	129	115	.89	9
Phillipston,	502	269,443	4	78	50	93	-	6	52	67	60	.89	4
Princeton,	982	834,165	6	131	88	181	-	31	80	142	131	.92	7
Royalston,	1,030	543,021	8	137	106	194	3	28	106	141	135	.95	8
Rutland,	980	500,228	8	147	85	221	4	12	127	167	147	.88	8
Shrewsbury,	1,449	986,099	9	246	148	270	2	26	174	253	235	.92	11
Southborough,	2,114	1,508,026	10	370	229	379	-	36	201	297	253	.85	11
Southbridge,	7,555	3,391,157	23	1,701	1,041	1,144	15	82	607	738	686	.92	29
Spencer,	8,747	4,130,561	40	1,878	1,330	1,860	3	115	1,104	1,440	1,337	.92	42
Sterling,	1,244	849,135	9	184	103	226	-	30	131	168	150	.89	11
Sturbridge,	2,074	945,380	14	377	262	432	5	9	236	309	289	.93	14
Sutton,	3,180	1,246,772	16	690	429	555	8	22	380	306	323	.88	16
Templeton,	2,999	1,264,283	17	646	332	555	17	59	303	453	442	.93	17
Upton,	1,878	948,409	9	257	173	335	3	52	178	278	260	.93	10
Uxbridge,	3,408	2,102,465	18	540	364	726	10	57	398	549	497	.90	19
Warren,	4,681	2,558,764	22	924	573	1,053	-	66	593	805	742	.92	28
Webster,	7,031	2,978,623	14	1,426	757	794	5	60	405	529	469	.88	16
Westborough,	5,195	2,740,448	20	686	432	804	1	85	421	662	613	.92	24
West Boylston,	3,019	1,209,668	14	494	322	645	2	36	370	485	446	.91	15
West Brookfield,	1,592	769,087	10	236	166	273	8	22	145	209	193	.92	10
Westminster,	1,688	725,743	11	262	153	290	3	29	153	233	218	.93	12
Winchendon,	4,390	2,196,606	18	769	312	842	1	109	501	718	676	.94	23
Worcester,	84,555	81,025,802	293	15,790	12,904	16,255	-	1,984	8,695	13,082	11,727	.89	386
Totals,	280,787	\$191,955,290	1,157	50,426	34,309	52,454	215	4,945	29,389	41,076	37,309	.90	1,353

BOARD OF EDUCATION.

TOWNS.	Whole No. of different male teachers in school-year.	Whole No. of different female teachers in school-year.	No. of teachers who have attended Normal Schools.	No. of teachers who have graduated from Normal Schools.	Avg wages per month of male teachers in Public Schools.	Avg wages per month of female teachers in Public Schools.	Aggregate of months all the Public Schools have been kept during the school-year.	Average No. of months they have been kept for the entire year.	No. of School kept less than six months each.
Ashburnham.	.	17	4	1	\$105 00	\$32 80	109-19	8-9	-
Athol.	.	38	9	6	190 00	39 71	194	8-16	-
Auburn.	.	11	8	4	-	89 80	58-5	7-5	-
Barre.	. 2	21	12	10	59 68	49 36	104-13	8-2	-
Berlin.	. 2	5	3	3	-	32 00	40	8	-
Blackstone.	. 2	24	2	1	111 11	95 00	198	9-2	-
Bolton.	. 1	9	4	3	60 00	29 33	64	9-7	-
Boylston.	. 1	5	2	2	-	41 00	36-10	9-2	-
Brookfield.	. 2	24	1	-	110 00	37 00	130	8-2	-
Charlton.	. 2	21	8	1	29 00	31 00	97	7-9	-
Canton.	. 2	38	13	2	160 00	43 31	300-17	9-8	-
Dana.	. 2	9	5	4	-	30 00	85-15	7-7	-
Douglas.	. 2	13	1	-	80 00	33 50	103	7-18	-
Dudley.	. 3	15	1	1	100 00	34 50	115-12	8-17	-
Fitchburg.	. 10	93	80	16	140 00	48 00	737	9-13	-
Gardner.	. 2	42	9	8	125 00	41 92	284	9-3	-
Grafton.	. 1	88	6	4	133 33	35 67	193	8	-
Hartwick.	. 3	18	5	2	46 00	31 70	126	9	-
Harvard.	. 2	13	4	2	36 00	32 50	80-10	8-18	-
Holden.	. 1	20	10	6	104 00	34 40	135-15	9-2	-
Hopedale.	. 2	11	9	8	-	53 03	66	9-6	-
Hubbardston.	. 2	13	3	2	-	63 42	67-6	8-9	-
Lancaster.	. 2	14	7	7	147 37	41 58	91-5	9-2	-
Leicester.	. 4	25	8	6	100 00	40 00	141-15	9-9	-
Leonminster.	. 4	38	5	4	125 00	41 87	253-5	9	-
Lunenburg.	. -	11	7	5	-	33 00	60	7-10	-

SCHOOL RETURNS.

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	11	5	5	38 41	51-5	7-6	-	1	1	19	Taxation,	6	420 00
Mendon,	37	13	9	150 00	924-5	9-16	1	1	4	144	Taxation,	10	1,500 00
Milford,	24	5	3	60 71	141-10	8-6	4	1	3	55	Taxation,	10-19	1,250 00
New Britain,	8	5	3	-	45	7-10	-	-	-	-	-	-	-
Northborough,	14	8	5	108 10.	72-15	8-3	-	1	1	31	Taxation,	9-5	1,000 00
Northbridge,	24	15	15	190 00	41 09	9-10	-	1	2	46	Taxation,	10	1,300 00
North Brookfield,	21	-	-	126 00	145	9-2	-	1	2	45	Taxation,	10	1,260 00
Oakham,	7	-	-	-	87-10	7-10	-	-	-	-	-	-	-
Oxford,	15	6	5	100 00	96-5	8-15	1	1	2	37	Taxation,	10	1,000 00
Paxton,	5	4	2	-	21	7	-	-	-	-	-	-	-
Petersham,	14	2	1	-	27 80	7-10	-	1	1	23	Taxation,	7-10	375 00
Phillipston,	7	2	2	-	28-10	7-7	1	-	-	-	-	-	-
Princeton,	13	4	2	-	54	7-14	-	1	2	52	Taxation,	8-10	570 00
Royalston,	13	2	1	32 00	57-10	7-3	1	-	-	-	-	-	-
Rutland,	12	2	-	49 00	51	6-7	1	1	1	42	Taxation,	7	380 00
Shrewsbury,	14	-	-	80 00	68-10	7-12	1	1	1	30	Taxation,	9	720 00
Southborough,	1	3	1	105 28	90-10	9-3	-	1	2	40	Taxation,	9-10	1,000 00
Southbridge,	10	3	2	120 00	211-1	9-3	-	1	4	87	Taxation,	9-17	1,200 00
Spencer,	38	6	2	77 55	361	9	-	1	3	99	Taxation,	10	1,300 00
Sterling,	49	17	4	89 48	73-5	8-2	-	1	2	51	Taxation,	9-5	825 50
Sturbridge,	10	5	5	-	116-5	8-6	-	-	-	-	-	-	-
Sutton,	16	2	1	32 00	120	7-10	-	1	1	22	Taxation,	9	600 00
Templeton,	27	4	4	30 00	118	6-18	-	-	2	72	Taxation,	9	800 00
Upton,	20	9	7	86 11	118	6-18	-	2	2	72	Taxation,	9	750 00
Uxbridge,	10	5	5	-	75-10	8-7	-	1	2	61	Taxation,	9-10	950 00
Warren,	24	7	3	157 89	159-5	8-16	-	1	2	66	Taxation,	9-10	1,500 00
Webster,	81	7	5	70 08	186-5	8-9	2	1	3	71	Taxation,	9	800 00
Westborough,	20	-	-	120 00	121	8-12	2	1	3	41	Taxation,	10	1,200 00
West Boylston,	24	5	4	115 79	40 00	175	-	1	3	87	Taxation,	10	1,400 00
West Brookfield,	17	9	1	102 56	117-15	8-8	-	1	2	27	Taxation,	9-15	1,000 00
Westminster,	11	6	5	-	77	7-14	-	1	1	25	Taxation,	9	460 00
Winchendon,	17	1	1	-	84	7-12	-	1	2	54	Taxation,	9	452 00
Worcester,	27	3	3	140 35	151-6	8-7	-	1	6	116	Not by tax,	9-10	2,200 00
	347	299	287	146 53	2,703	9-4	-	2	40	{ 570 } { 792 }	Taxation,	{ 10 } { 10 }	3,000 00
Totals	1,523	637	499	\$114 02	\$12 62	8-6	15	48	154	4,440	-	451-2	\$53,610 50

WORCESTER COUNTY — CONTINUED.

TOWNS.	Amount raised by taxes and expended for schools, including wages of teachers, books, fuel, care of rooms, for the school-year 1892-93.	Expense of supervision by school committee.	Salary of Superintendent of Public Schools.	Expense of printing reports, etc.	Expense of sundries, — books, stationery, etc.	Amount expended for transportation of pupils.	Amount expended for new school-houses.	Amount expended for alterations and permanent improvements.	Amount expended for ordinary repairs.	Amount paid for all school purposes from money raised by taxation.
Ashburnham.	\$1,200 00	\$90 00	\$500 00	\$24 00	\$146 88	\$97 00	\$5,788 88	—	\$251 84	\$11,948 60
Athol.	10,900 00	375 00	—	—	1,195 45	70 00	14,362 17	—	478 01	27,380 62
Auburn.	2,200 00	100 00	—	6 00	225 00	111 00	—	\$500 00	207 00	3,349 00
Barre.	5,097 16	82 90	464 28	—	340 00	175 83	—	—	300 00	6,430 17
Berlin.	1,100 00	80 00	44 35	—	139 04	—	—	—	—	1,363 39
Blackstone.	9,560 00	—	800 00	25 00	1,000 00	—	—	100 00	928 51	12,318 51
Bolton.	1,550 00	80 00	102 94	33 55	112 21	—	—	—	231 62	2,110 32
Boylston.	1,500 00	80 25	103 20	12 10	151 88	—	—	278 60	104 90	2,230 93
Brookfield.	7,000 00	105 00	625 00	30 00	606 00	85 00	—	—	100 00	8,651 00
Charlton.	3,318 75	192 29	168 75	3 44	622 86	—	—	542 65	109 79	4,958 53
Clinton.	22,478 68	200 00	1,600 00	8 85	2,658 44	—	6,028 98	—	2,524 55	35,499 45
Dana.	800 00	47 00	—	8 00	200 00	15 00	—	712 84	361 04	2,146 88
Douglas.	4,256 59	25 00	300 00	18 25	475 70	52 50	—	127 90	—	5,255 94
Dudley.	5,364 06	50 00	262 50	25 00	610 39	—	—	—	297 76	6,609 71
Fitchburg.	61,210 71	—	2,500 00	50 00	10,480 18	25 00	22,263 00	—	1,200 00	97,734 89
Gardner.	18,500 00	—	1,500 00	63 00	1,593 50	84 50	14,000 00	501 57	1,145 89	37,387 96
Grafton.	12,353 85	527 51	1,150 20	100 00	1,183 30	—	—	800 00	853 87	16,968 73
Hardwick.	4,000 00	55 80	100 00	—	376 73	—	—	—	27 34	4,559 87
Harvard.	2,850 00	135 00	330 72	24 00	388 80	—	—	175 41	30 85	3,934 78
Holden.	6,820 96	75 00	650 00	12 50	349 37	—	1,000 00	210 00	264 68	9,693 51
Hopedale.	4,403 48	100 00	—	19 00	575 73	321 00	—	157 47	545 58	5,801 26
Hubbardston.	2,200 00	110 00	250 00	24 00	367 26	374 41	—	—	207 10	3,532 77
Lancaster.	6,600 00	83 33	450 00	3 65	688 81	312 75	—	215 00	174 94	8,428 52
Leicester.	7,200 00	238 90	641 65	—	1,014 10	—	—	—	345 96	9,440 61
Leominster.	19,500 00	—	1,662 50	12 00	2,815 44	262 50	—	1,348 45	336 07	25,936 05
Lunenburg.	2,000 00	81 00	200 00	16 00	322 00	109 00	2,505 00	—	49 00	6,282 00

SCHOOL RETURNS.

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Mendon, . . .	1,660 00	17 00	300 00	20 00	262 10	103 00	-	107 00	50 64	2,519 74
Milford, . . .	20,963 92	25 00	1,700 00	25 00	3,368 07	-	-	-	1,915 30	27,997 29
Millbury, . . .	9,560 35	30 00	620 64	1 50	535 07	71 68	14,336 37	-	557 93	25,983 54
New Braintree, . . .	1,603 00	75 00	-	13 00	167 00	-	-	79 00	25 00	1,962 00
Northboro', . . .	4,138 91	100 00	316 84	20 00	331 81	307 75	4,181 38	-	58 68	9,455 37
Northbridge, . . .	12,505 89	-	600 00	50 00	1,126 78	583 75	-	409 61	1,087 93	16,363 96
No. Brookfield, . . .	7,800 00	170 00	625 00	45 00	603 95	-	-	65 79	148 09	9,457 83
Oakham, . . .	850 00	95 11	-	5 00	166 90	104 85	-	-	59 32	1,281 18
Oxford, . . .	6,000 00	250 00	316 66	30 00	567 47	256 00	-	-	305 06	6,725 19
Paxton, . . .	811 11	50 00	-	-	68 97	186 00	-	11 06	37 70	1,164 84
Petersham, . . .	2,341 93	63 20	285 72	18 00	307 04	41 15	-	-	54 10	3,111 14
Phillipston, . . .	1,050 00	-	82 98	13 00	82 42	103 00	-	93 10	26 45	1,450 95
Princeton, . . .	2,500 00	96 90	177 89	15 00	287 57	419 75	-	113 20	61 03	3,671 14
Royalston, . . .	1,615 70	115 65	249 97	25 00	160 91	110 00	-	185 44	98 74	2,561 41
Rutland, . . .	1,727 42	97 75	-	8 00	218 25	361 24	-	-	44 33	2,456 99
Shrewsbury, . . .	4,000 00	195 00	77 70	18 00	303 74	307 00	-	95 51	25 00	5,021 95
Southborough, . . .	5,000 00	150 00	395 00	15 00	590 00	-	-	-	681 00	6,831 00
Southbridge, . . .	13,448 17	-	1,400 00	31 50	2,736 27	-	2,539 80	1,121 68	597 06	21,874 48
Spencer, . . .	23,650 00	-	1,300 00	41 86	1,714 83	649 00	-	436 00	1,580 53	29,372 22
Sterling, . . .	3,817 45	69 00	269 01	20 00	279 66	218 25	-	-	125 02	4,798 39
Sturbridge, . . .	3,500 00	195 00	490 00	17 00	314 00	106 00	-	-	83 00	4,705 00
Sutton, . . .	5,200 00	150 00	-	-	287 76	60 00	-	-	453 78	6,151 54
Templeton, . . .	5,000 00	-	708 00	-	1,000 00	448 50	4,626 77	104 50	290 00	12,087 77
Upton, . . .	4,553 56	10 00	552 40	25 00	578 73	278 00	-	-	110 84	6,108 53
Uxbridge, . . .	8,000 00	117 00	750 00	75 00	707 25	175 00	25,000 00	-	142 75	34,967 00
Warren, . . .	12,398 93	15 00	400 00	32 00	942 93	360 64	-	348 47	478 61	14,976 58
Webster, . . .	8,000 00	150 00	600 00	44 00	766 61	-	-	868 95	639 90	10,969 46
Westborough, . . .	12,230 29	-	838 33	25 00	1,633 35	325 50	-	-	591 17	15,663 64
West Boylston, . . .	6,000 00	170 00	471 18	-	518 36	-	-	411 41	244 83	7,815 78
W. Brookfield, . . .	3,000 00	-	168 50	10 00	458 00	167 00	-	-	1,410 00	5,213 50
Westminster, . . .	3,200 00	93 75	333 36	22 00	418 38	158 00	-	-	416 85	4,642 34
Winchendon, . . .	5,817 82	396 69	750 00	48 67	503 43	68 10	-	4,129 90	840 32	12,594 93
Worcester, . . .	272,785 89	1,283 35	3,500 00	341 44	41,553 98	-	145,026 54	2,979 30	14,060 09	481,530 59
Totals, . . .	\$700,534 53	\$7,364 38	\$32,705 27	\$1,573 31	\$92,460 46	\$8,084 65	\$261,608 89	\$17,219 81	\$38,224 98	\$1,159,756 18

WORCESTER COUNTY — CONCLUDED.

[illegible]

SCHOOL RETURNS.

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Mendon,	50 00	-	-	171 70	-	-	-	-	-	1	225	-	-	384 64	-
Millford,	-	-	-	406 77	-	-	-	-	-	-	-	-	-	-	-
Millbury,	-	-	-	-	-	-	-	-	-	-	-	-	-	218 31	-
New Braintree,	-	-	-	-	-	-	-	-	-	-	-	-	-	449 31	-
Northborough,	-	5,000 00	250 00	-	-	-	-	-	-	-	-	-	-	268 31	-
Northbridge,	-	-	-	402 29	-	-	-	-	-	-	-	-	-	274 41	-
No. Brookfield,	-	-	-	437 50	-	-	-	-	-	7	360	-	-	268 31	-
Oakham,	-	-	-	159 48	-	-	-	-	-	-	-	-	-	275 00	-
Oxford,	-	-	-	-	-	-	-	-	-	-	-	-	-	275 00	65 00
Paxton,	-	-	-	-	-	-	-	-	-	-	-	-	-	275 00	-
Petersham,	-	2,422 00	108 75	176 49	-	-	-	-	-	-	-	-	-	381 64	-
Phillipston,	-	-	-	80 27	-	-	-	-	-	-	-	-	-	387 20	-
Princeton,	7 20	-	-	101 68	-	-	-	-	-	-	-	-	-	394 64	10 00
Royalston,	-	6,500 00	415 90	135 56	-	-	-	-	-	-	-	-	-	394 64	-
Rutland,	-	-	100 00	-	-	-	-	-	-	-	-	-	-	387 20	-
Shrewsbury,	-	1,000 00	40 20	-	-	-	-	-	-	-	-	-	-	268 31	-
Southborough,	-	-	-	383 92	1	102	60,000 00	-	-	2	48	20,258 00	-	268 31	-
Southbridge,	-	-	-	-	-	-	-	-	-	2	818	-	-	-	-
Spencer,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sterling,	-	-	-	-	-	-	-	-	-	-	-	-	-	368 31	-
Sturbridge,	-	-	-	-	-	-	-	-	-	-	-	-	-	368 31	-
Sutton,	-	2,000 00	120 00	-	-	-	-	-	-	1	110	500 00	-	268 31	-
Templeton,	57 00	-	-	260 48	-	-	-	-	-	3	70	50 00	-	268 31	-
Upton,	-	-	-	-	-	-	-	-	-	-	-	-	-	312 20	-
Uxbridge,	-	-	-	-	-	-	-	-	-	-	-	-	-	218 31	50 00
Warren,	-	-	-	-	-	-	-	-	-	-	-	-	-	218 31	-
Webster,	-	-	-	470 46	-	-	-	-	-	3	650	800 00	-	184 64	-
Westborough,	-	-	-	-	-	-	-	-	-	2	45	1,000 00	-	184 64	50 00
West Boylston,	-	-	-	-	-	-	-	-	-	-	-	-	-	268 31	-
W. Brookfield,	-	-	-	-	-	-	-	-	-	-	-	-	-	368 31	100 00
Westminster,	-	-	-	-	-	-	-	-	-	-	-	-	-	368 31	113 14
Winchendon,	-	240,000 00	7,981 83	-	-	-	-	-	-	1	6	90 00	-	50 00	-
Worcester,	-	1,537 96	57 50	-	-	-	38,250 00	471	-	20	2,500	33,250 00	-	-	-
Totals,	\$264 20	\$474,308 62	\$21,173 09	\$6,174 98	8	1,000	\$105,843 00	48	6,058	\$57,113 00	\$14,467 29	\$693 61			

RECAPITULATION.

COUNTIES.	Population—U. S. Census, 1890.	Valuation—1892.	No. of Public Schools.	No. of persons in town May 1, 1892, between 15 and 18 years of age.	No. of persons in town May 1, 1892, between 8 and 14 years of age.	No. of different pupils of all ages in the Public Schools during the school-year.	No. attending within the year under 5 years of age.	No. attending within the year over 15 years of age.	No. attending within the year between 8 and 14 years of age.	Average membership of all the Schools.	Average attendance in all the Public Schools during the school-year.	The per cent. of attendance based upon the average membership.
Barnstable,	29,172	\$20,598,614	158	4,358	2,977	4,931	11	656	8,069	4,247	8,879	.91
Berkshire,	81,108	45,846,855	358	14,810	9,433	15,706	154	1,077	9,014	12,294	11,067	.90
Bristol,	186,465	141,613,234	655	36,241	21,223	32,227	117	1,830	18,959	24,911	22,288	.89
Dukes,	4,369	3,811,482	20	545	362	625	5	94	363	493	421	.85
Essex,	299,995	233,398,097	1,023	50,607	30,037	47,736	66	4,381	26,885	41,448	37,545	.90
Franklin,	38,610	20,637,911	258	6,442	8,965	7,219	55	533	4,210	6,074	5,560	.91
Hampden,	135,713	105,309,716	490	25,012	15,751	22,777	100	1,457	12,520	16,858	15,274	.90
Hampshire,	51,859	29,033,016	288	9,257	6,754	9,544	83	906	6,456	7,629	6,937	.90
Middlesex,	431,167	399,237,733	1,464	75,396	47,486	81,178	705	8,300	44,919	64,992	59,988	.92
Nantucket,	3,268	3,009,406	11	495	395	377	10	81	236	325	294	.90
Norfolk,	118,950	147,912,664	523	21,946	13,542	22,950	258	2,307	12,528	19,224	17,563	.91
Plymouth,	92,700	65,169,898	408	14,555	8,636	16,576	69	1,520	9,310	14,024	12,783	.91
Suffolk,	484,780	925,491,174	697	79,649	50,071	77,445	1,435	7,258	39,571	67,272	59,893	.89
Worcester,	280,787	191,955,290	1,157	50,426	34,309	52,454	215	4,945	29,389	41,076	37,309	.90
Totals,	2,238,943	\$2,338,025,090	7,510	390,089	243,941	391,745	3,283	35,395	216,429	320,862	290,801	.90

SCHOOL RETURNS.

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RECAPITULATION — CONTINUED.

COUNTIES.	HIGH SCHOOLS.													
	No. of teachers required by the Public Schools.	Whole male teachers in school-year.	Whole No. of different female teachers in school-year.	No. of teachers who have attended Normal Schools.	No. of teachers who have graduated from Normal Schools.	A'v'ge wages per month of male teachers in Public Schools.	A'v'ge wages per month of female teachers in Public Schools.	Aggregate of months all the Public Schools have been kept during the school-year.	Average No. of months the Public Schools have been kept for the entire year.	No. of Schools kept less than six months each.	No. of High Schools.	No. of teachers.	No. of pupils.	Salary of Principal.
Barnstable,	168	51	179	63	52	\$73 68	\$36 31	1,371-1	8-5	2	10	17	506	\$10,265 00
Berkshire,	450	44	529	89	55	75 67	33 86	3,567-6	8-1	5	16	33	1,007	14,188 00
Bristol,	798	54	871	188	142	124 06	46 11	6,970	8-14	1	11	54	1,824	15,372 50
Dukes,	22	5	23	8	5	56 00	35 97	162-12	8-2	1	1	1	34	540 00
Essex,	1,198	96	1,199	456	373	123 47	47 32	9,778-10	9-4	4	28	127	8,576	40,055 50
Franklin,	272	20	359	77	49	59 35	31 15	1,944-8	7-8	2	8	18	458	6,550 00
Hamden,	579	47	641	275	201	132 78	45 32	4,051-13	8-5	4	8	46	1,297	13,834 00
Hampshire,	815	31	377	80	46	73 50	32 56	2,409-13	7-16	8	12	29	714	10,402 00
Middlesex,	1,902	180	1,925	809	689	142 67	51 42	13,849-17	8-19	5	47	205	6,600	67,767 75
Nantucket,	12	1	11	2	2	100 00	32 50	116	10-10	—	1	2	71	1,000 00
Norfolk,	640	81	631	243	205	113 34	46 62	4,789-10	9-5	1	25	70	1,898	33,057 50
Plymouth,	456	56	514	219	174	95 74	40 34	3,830-6	9-1	2	19	59	1,779	20,887 67
Suffolk,	1,586	198	1,462	985	981	247 41	71 20	6,893-5	9-16	—	13	146	4,398	39,076 00
Worcester,	1,353	125	1,523	637	499	114 02	42 62	10,187-3	8-6	15	48	154	4,440	53,610 50
Totals,	9,751	989	10,244	4,131	3,473	\$140 73	\$48 13	68,961-4	8-13	50	247	961	28,582	\$326,610 42

RECAPITULATION — CONTINUED.

COUNTIES.	Amount raised by taxes and expended for schools, including wages of teachers, board, fuel, care of fires and school-rooms for the school-year 1892-93.	Expense of supervision by school committee.	Salary of Superintendent of Public Schools.	Expense of printing reports, etc.	Expense of sundries, — books, stationery, etc.	Amount expended for transportation of pupils.	Amount expended for new school-houses.	Amount expended for alterations and permanent improvements.	Amount expended for ordinary repairs.	Amount paid for all school purposes from money raised by taxation.
Barnstable,	\$6,697 26	\$1,602 57	\$6,839 80	\$333 13	\$6,987 13	\$2,682 66	—	\$954 19	\$4,205 21	\$92,701 95
Berkshire,	175,378 49	2,892 28	8,385 38	552 68	19,816 21	1,321 23	\$14,234 68	7,459 34	6,957 13	236,927 32
Bristol,	459,193 40	4,344 54	13,800 00	922 62	38,660 98	3,805 43	59,287 51	14,221 16	15,238 74	609,474 38
Dukes,	6,739 29	366 00	—	91 90	1,115 00	101 40	—	395 55	538 84	9,347 98
Essex,	700,449 53	9,600 83	16,466 67	2,314 88	69,798 72	2,961 46	59,775 50	37,344 25	54,228 73	952,940 07
Franklin,	78,371 92	3,017 98	2,557 83	370 10	9,512 86	3,110 44	1,637 59	3,790 19	5,931 01	108,298 82
Hampden,	320,194 44	3,378 48	12,314 17	519 66	96,846 92	2,791 40	32,667 01	38,017 66	15,349 51	462,079 25
Hampshire,	105,964 83	2,683 22	4,057 20	280 45	11,034 28	2,242 86	14,083 31	10,450 92	6,797 17	157,594 24
Middlesex,	1,312,861 00	11,151 76	37,697 72	2,083 00	113,191 08	13,901 87	385,005 49	48,382 10	72,793 85	1,997,067 87
Nantucket,	5,211 51	100 00	—	24 00	387 87	—	—	—	117 71	5,841 09
Norfolk,	414,123 62	4,851 49	19,299 27	537 87	41,163 55	5,956 99	101,323 06	27,796 06	21,399 26	636,451 17
Plymouth,	223,669 90	3,150 37	10,770 82	601 85	20,671 76	3,632 02	36,089 66	3,439 40	16,641 92	318,567 70
Suffolk,	1,709,752 08	57,186 83	8,300 00	3,205 00	101,181 68	18 00	590,326 70	21,335 61	229,532 60	2,721,288 50
Worcester,	700,534 53	7,364 38	32,705 27	1,573 31	92,460 46	8,064 65	261,608 89	17,219 81	38,224 88	1,159,756 18
Totals,	\$6,282,141 20	\$111,570 23	\$173,194 13	\$13,410 35	\$562,228 00	\$50,690 41	\$1,556,039 40	\$231,306 24	\$487,956 56	\$9,463,436 52

SCHOOL RETURNS.

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RECAPITULATION — CONCLUDED

COUNTIES.	Amount of voluntary contributions for Public Schools.	Amount of local funds, the income of which can be appropriated only for the support of Schools and Academies.	Income of local funds.	Income of surplus revenue and other funds, including the dog tax, used at the option of the town.	ACADEMIES AND PRIVATE SCHOOLS.						Town's share of school-fund payable Jan. 25, 1898.	How much of said fund was used for apparatus and books of reference.
					No. of Academies.	Whole No. attending for the year.	Amount of tuition paid.	No. of Private Schools.	Whole No. attending for the year.	Estimated amount of tuition.		
Barnstable,	\$130 00	\$39,783 00	\$2,215 87	\$2,422 77	1	30	—	1	1,399	\$19,175 00	\$4,728 76	\$110 00
Berkshire,	100 00	15,668 22	947 60	1,892 13	—	—	—	12	1,399	19,175 00	9,607 44	573 04
Bristol, . .	368 15	233,000 00	14,026 27	8,630 10	3	293	\$11,612 00	27	7,304	19,431 00	4,630 33	544 64
Dukes, . .	—	—	—	218 12	1	13	—	—	—	—	1,802 96	99 19
Essex, . .	44 00	485,954 59	12,061 17	6,987 56	5	811	42,102 00	43	7,014	29,336 46	5,184 81	140 00
Franklin,	131 00	66,341 47	4,589 37	1,513 63	6	616	31,895 00	3	43	577 50	8,416 87	121 00
Hampden,	672 50	209,651 65	11,397 23	2,863 17	3	458	13,092 00	22	5,641	58,489 00	6,794 07	147 10
Hampshire,	20 00	470,824 82	25,782 73	2,750 67	5	559	89,240 00	17	1,076	15,875 00	7,039 94	331 20
Middlesex,	98 00	131,967 78	8,780 46	6,152 11	13	988	108,512 00	55	10,867	97,810 00	9,618 06	593 62
Nantucket,	—	—	—	311 00	1	80	500 00	—	—	—	—	—
Norfolk, . .	695 00	164,388 46	7,062 84	6,563 88	4	342	17,479 83	25	1,581	20,992 00	4,530 68	285 72
Plymouth,	215 00	194,867 00	9,486 81	6,620 65	7	199	4,540 00	10	648	6,630 00	6,106 06	128 16
Suffolk, . .	—	62,434 49	3,044 87	58,565 08	38	12,000	205,000 00	87	3,335	362,000 00	—	—
Worcester,	264 20	474,308 62	21,173 09	6,474 98	8	1,000	105,843 00	48	6,053	57,113 00	14,467 29	693 64
Totals,	\$2,737 85	\$2,549,140 10	\$120,517 81	\$110,905 85	94	17,359	\$629,875 83	350	44,991	\$687,422 96	\$81,827 27	\$3,767 31

EVENING SCHOOLS.

CITIES AND TOWNS.	No. of Schools.	ATTENDANCE.			TIME. No. of Evenings.	No. of Teachers.	Expense.
		Males.	Females.	Average.			
Amesbury,	1	210	*	145	36	9	\$346 70
Billerica,	1	82	40	47	76	4	825 00
Boston,	21	5,623	*	3,811	105	193	61,764 88
Brockton,	10	326	76	241	44	13	1,765 08
Brookline,	1	123	*	36	69	4	524 94
Cambridge,	6	960	*	456	312	46	4,210 75
Chelsea,	2	443	*	186	81	14	1,237 00
Chicopee,	2	235	260	361	40	26	1,358 16
Clinton,	1	205	171	161	46	11	625 00
Cohasset,	1	22	-	12	36	2	300 00
Concord,	1	66	21	40	52	5	514 00
Dracut,	2	35	21	45	35	8	131 12
Dudley,	3	109	95	94	25	7	214 09
Everett,	1	76	23	33	69	3	433 50
Fall River,	14	2,124	978	1,439	66	106	10,310 73
Fitchburg,	4	219	107	149	48	17	1,629 30
Frammingham,	2	68	12	25	40	5	750 00
Groveland,	1	15	20	-	16	2	32 00
Haverhill,	5	270	130	280	60	16	1,865 27
Holyoke,	29	560	444	723	20	62	1,911 00
Hyde Park,	3	163	*	44	51	6	843 03
Lawrence,	4	518	409	666	50	46	2,365 75
Lowell,	11	1,764	1,204	1,635	74	102	14,491 09
Lynn,	17	332	262	346	53	26	2,869 81
Malden,	2	161	93	161	80	10	1,701 01
Marlborough,	1	78	8	45	60	4	572 78
Medford,	1	45	30	30	34	4	330 56
Milford,	1	52	19	43	52	4	378 00
Milbury,	1	87	*	75	75	3	252 00
Mills,	1	18	4	9	27	2	60 00
Natick,	1	33	30	24	40	3	299 65
New Bedford,	6	2,316	*	749	60	53	6,813 93
Newburyport,	2	50	34	43	30	7	251 50
Newton,	2	113	54	83	34	10	818 52
North Adams,	9	187	65	224	40	15	1,070 25
Northampton,	6	128	92	144	47	16	1,361 73
North Attleborough,	1	58	14	18	54	3	247 60
Northbridge,	2	54	4	34	30	4	192 96
Norwood,	1	23	8	21	36	2	120 00
Pittsfield,	2	160	130	-	61	6	724 25
Quincy,	2	213	32	148	49	15	1,876 42
Revere,	1	17	37	18	24	5	54 00
Salem,	4	394	131	196	224	17	2,369 00
Somerville,	4	273	64	142	43	15	1,771 10
Southbridge,	4	168	136	-	39	7	596 95
Spencer,	6	78	72	90	48	9	487 13
Springfield,	5	725	221	338	-	27	4,166 56
Taunton,	7	410	165	326	242	23	1,773 75
Waltham,	3	164	131	148	148	14	1,888 73
Warren,	2	80	34	50	26	6	181 50
Warwick,	1	9	10	17	50	1	94 25
Webster,	4	-	-	106	38	9	462 07
Westborough,	1	38	33	22	24	2	90 00
Westfield,	1	61	23	29	39	4	166 75
West Springfield,	2	45	34	28	35	2	167 81
Weymouth,	1	18	8	12	50	2	500 00
Woburn,	1	84	38	61	50	4	1,210 39
Worcester,	13	765	142	483	88	53	7,799 81
Totals,	244	21,615	6,169	14,881	3,481	1,088	\$152,269 06

* With males.

SCHOOL RETURNS.

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RETURNS OF SCHOOLS IN STATE INSTITUTIONS FOR THE YEAR ENDING JULY 31, 1893.

STATE INSTITUTIONS.	No. of Schools in the Institution.	No. of different Schol-ars of all ages during the year.	Average attendance during the year.	No. under 5 years of age attending School.	No. over 15 years of age attending School.	No. between 5 and 15 years of age remaining in the institution July 31, 1893.	NO. OF TEACHERS DURING THE YEAR.		WAGES OF TEACHERS PER MONTH.		Length of each School in Months.
							Males.	Females.	Males.	Females.	
State Industrial School at Lancaster, .	4	196	95	-	124	72	-	4	-	\$25 00*	12
State Primary School at Monson, .	5	501	159	7	8	118	-	9	-	28 66	11½
Lyman School for Boys at Westborough,	7	365	224	-	248	117	4	9	\$50 00 to 70 00†	45 00 to 80 00†	10

* And home.

† This includes board at the rate of \$200 per year.

GRADUATED TABLES—FIRST SERIES.

The following Table shows the sums appropriated by the several cities and towns in the State for the education of each child between five and fifteen years of age. The income of the surplus revenue and of other funds held in a similar way, when appropriated to schools, is added to the sum raised by taxes; and these sums constitute the amount reckoned as appropriations. The income of such school funds as were given and are held on the express condition that their income shall be appropriated to schools is not included. Such an appropriation of their income, being necessary to retaining the funds, is no evidence of the liberality of those holding the trust. But if a town appropriates the income of any fund to its public schools, which may be so appropriated or not, at the option of the voters, or when the town has a legal right to use such income in defraying its ordinary expenses, than such appropriation is as really a contribution to common schools as an equal sum raised by taxes. On this account the surplus revenue and sometimes other funds are to be distinguished from local school funds as generally held. The income of the one *may* be appropriated to schools, or not, at the pleasure of the town; the income of the other *must* be appropriated to schools by the condition of the donation. Funds of the latter kind are usually donations made to furnish means of education in addition to those provided by a reasonable taxation. Committees are expected, in their annual returns, to make this distinction in relation to school funds.

- Voluntary contributions are not included in the amount which is divided in order to ascertain the sum appropriated to each child. In many towns such contributions, however liberal, are not permanent, and cannot be relied upon as a stated provision. They are often raised and applied to favor particular schools, or classes of scholars, and not benefit equally all that attend the public schools. Besides, the value of board and fuel gratuitously furnished is determined by the mere estimate of individuals, and is therefore uncertain; while the amount raised by taxes, being in money, has a fixed and definite value, and is a matter of record. Still the contributions voluntarily made are exhibited in a separate column of the Table, as necessary to a complete statement of the provision made by the towns for the education of their children.

The Table exhibits the rank of each city or town in the State, in respect to its liberality in the appropriation of money to its schools, as compared with other cities and towns for the year 1892-93, also its rank in a similar scale for 1891-92. It presents the sum appropriated to each child between five and fifteen.

SCHOOL RETURNS.

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GRADUATED TABLES — (FOR THE STATE) — FIRST SERIES.

Table showing the Comparative Amount of Money appropriated by the different Towns in the State for the Education of each Child in the Town between the Ages of 5 and 15 Years.

For 1891-2.	For 1892-3.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
3	1	WESTON, .	\$42 52.8	\$7,400 00	-	\$7,400 00	174	-
2	2	Nahant, .	42 17.1	4,090 62	-	4,090 62	97	-
1	3	Brookline, .	40 75.4	87,867 64	-	87,867 64	2,156	-
4	4	Milton, .	29 19.3	21,866 18	-	21,866 18	749	\$250 00
15	5	Lexington, .	25 32.6	11,157 00	-	11,157 00	432	-
8	6	Newton, .	25 67.5	114,786 24	\$2,648 98	117,335 22	4,570	-
28	7	Sandwich, .	24 98	5,261 64	247 98	5,509 62	221	-
11	8	Manchester, .	24 92.2	5,009 39	-	5,009 39	201	44 00
9	9	Dedham, .	24 11.5	28,384 17	-	28,384 17	1,177	-
10	10	Wellesley, .	23 87.3	12,324 45	90 00	12,414 45	520	-
13	11	Cohasset, .	23 77.7	8,796 26	239 07	9,035 33	880	-
6	12	Hull, .	23 69.6	2,440 75	-	2,440 75	103	-
50	13	Lincoln, .	23 16.8	3,289 91	-	3,289 91	142	-
44	14	Boston, .	22 84.2	1,618,386 87	58,114 48	1,671,501 35	73,176	-
25	15	Hopedale, .	22 69.8	4,408 48	-	4,408 48	194	-
29	16	Arlington, .	22 27.6	21,007 17	-	21,007 17	943	-
59	17	Barnardston, .	22 19.6	2,050 00	103 10	2,153 10	97	-
22	18	Barnstable, .	22 18.7	12,500 00	646 50	13,046 50	688	190 00

Showing the Comparative Amount of Money appropriated by the different Towns in the State — Continued.

For 1891-92.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
18	Walpole,	\$22 05.4	\$8,000 00	\$124 80	\$8,424 80	382	-
27	Bourne,	22 04.1	4,970 80	253 14	6,223 94	237	-
14	Dover,	21 85.7	1,925 00	173 33	2,098 33	96	-
19	Newham,	21 84.8	10,400 00	-	10,400 00	476	-
32	Hingham,	21 82.6	12,152 25	660 00	12,812 25	587	-
20	Concord,	21 53.9	13,850 00	-	13,850 00	643	-
94	Melrose,	21 40.3	33,090 42	-	33,090 42	1,546	-
23	Medford,	21 33.7	41,587 73	-	41,587 73	1,949	-
26	Littleton,	21 24.3	3,338 23	145 73	3,483 96	164	-
36	Belmont,	21 01.6	8,406 61	-	8,406 61	400	-
35	Sterling,	20 74.7	3,817 45	-	3,817 45	184	-
26	Falmouth,	20 71.9	7,500 00	332 13	7,832 13	378	-
21	Bridgewater,	20 57.4	9,500 00	419 58	10,019 58	487	-
40	Harvard,	20 35.7	2,850 00	-	2,850 00	140	-
32	Princeton,	19 86	2,500 00	101 68	2,601 68	131	\$7 20
148	Cambridge,	19 49.7	242,765 93	-	242,765 93	12,451	-
42	Lancaster,	19 46.1	6,600 00	-	6,600 00	334	-
37	Winchester,	19 43	19,119 48	-	19,119 48	984	-
17	Wellesley,	19 36	3,100 00	75 09	3,175 09	164	-
7	Swampscott,	19 18.1	8,381 00	-	8,381 00	463	-
106	Sudbury,	19 15.8	3,400 00	163 39	3,563 39	186	-
91	Randolph,	19 01.1	10,518 49	508 00	11,026 49	580	-
188	Sharon,	18 79.5	3,700 00	163 00	3,863 00	205	-
33	Groton,	18 78.7	6,200 00	-	6,200 00	330	48 00
55	Leominster,	18 76.8	19,500 00	-	19,500 00	1,039	-
41	Springfield,	18 53.2	135,623 10	-	135,623 10	7,318	-

SCHOOL RETURNS.

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65	45	Norwood.	18 53.1	14,158 11	-	14,158 11	764	-
47	46	Weymouth.	18 46.4	31,429 89	808 89	82,238 78	1,746	-
53	47	Great Barrington,	18 43.1	11,570 00	613 00	12,183 00	661	-
60	48	Peabody.	18 42.2	82,000 00	644 56	82,644 56	1,772	-
12	49	Kingston.	18 41.7	4,400 00	204 31	4,604 31	250	150 00
24	50	Waltham.	18 25.7	64,444 70	-	64,444 70	2,982	-
68	51	Ashfield.	18 10.8	1,800 00	119 55	1,919 55	106	-
62	52	Wrentham.	17 99.2	7,700 00	460 43	8,160 43	463	-
107	53	Natick.	17 87.2	25,306 98	-	25,306 98	1,416	-
99	54	Winthrop.	17 86.6	7,500 00	450 60	7,950 60	445	-
16	55	Stockbridge.	17 85.7	6,500 00	-	6,500 00	364	100 00
127	56	Westborough.	17 82.8	12,230 29	-	12,230 29	686	-
104	57	Upton.	17 71.8	4,553 56	-	4,553 56	257	67 00
103	58	Wayland.	17 65.2	5,700 00	160 63	5,860 63	332	-
5	59	Yarmouth.	17 52.9	4,200 00	200 00	4,400 00	251	-
89	60	Easthampton.	17 48.3	11,755 45	220 74	11,976 19	685	-
225	61	Blandford.	17 39.4	2,000 00	522 18	2,522 18	145	-
-	62	West Tisbury.	17 34.4	1,044 11	13 88	1,057 99	61	-
89	63	Somerville.	17 34.1	124,701 41	-	124,701 41	7,191	-
75	64	Worcester.	17 37.5	272,786 89	-	272,786 89	15,790	-
88	65	Sherborn.	17 26.8	2,525 00	99 81	2,624 81	152	-
241	66	Merrimac.	17 10.1	7,087 17	180 84	7,268 01	425	-
67	67	North Andover.	17 09.3	11,538 00	-	11,538 00	675	-
92	68	Petersham.	17 01.6	2,341 93	176 49	2,518 42	148	-
56	69	Malden.	17 01.4	71,544 88	-	71,544 88	4,205	-
69	70	Lynn.	16 71.3	147,233 40	-	147,233 40	8,869	-
63	71	Acton.	16 66.6	4,400 00	-	4,400 00	264	-
46	72	Watertown.	16 60.4	21,684 97	-	21,684 97	1,306	-
85	73	Salem.	16 60.4	82,508 04	2,507 49	85,015 53	5,120	-
112	74	Canton.	16 60.1	11,820 00	647 61	12,467 61	751	-
71	75	Frammingham.	16 56.9	26,500 00	1,088 31	27,588 31	1,665	400 00
171	76	Millford.	16 52.7	20,963 92	406 77	21,370 69	1,293	-

Showing the Comparative Amount of Money appropriated by the different Towns in the State — Continued.

		TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the sup- port of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contrib- uted for board and fuel.
For 1891-92.	For 1892-93.							
51	77	Reading,	\$16 51.6	\$11,000 00	-	\$11,000 00	668	-
52	78	North Attleborough,	16 48.6	18,610 74	\$893 32	19,504 06	1,183	-
115	79	Norwell,	16 40.4	3,200 00	294 13	3,494 13	213	-
80	80	Hyde Park,	16 37.5	31,505 68	-	31,505 68	1,924	-
121	81	Braintree,	16 30.5	12,791 39	774 41	13,565 80	832	-
77	82	Shrewsbury,	16 26	4,000 00	-	4,000 00	246	-
212	83	Orange,	16 24.8	13,600 00	-	13,600 00	837	-
120	84	Tyngsborough,	16 21.6	1,200 00	-	1,200 00	74	-
98	85	Stoneham,	16 21.3	14,900 00	-	14,900 00	919	-
124	86	Essex,	16 20.3	3,500 00	113 41	3,613 41	223	-
84	87	Gloucester,	16 19.7	58,909 35	-	58,909 35	3,637	-
113	88	Brockton,	16 15.7	76,196 06	1,168 17	77,364 23	4,788	-
58	89	Montgomery,	16 15.1	500 00	49 14	549 14	34	-
155	90	Rockland,	16 10.9	13,500 00	-	13,500 00	838	-
74	91	Northbridge,	16 01.5	12,505 89	402 29	12,908 18	806	-
221	92	Amherst,	15 93.8	8,870 46	273 03	9,148 49	574	-
166	93	Ashland,	15 92	6,400 00	-	6,400 00	402	-
123	94	Easton,	15 88	11,000 00	1,371 04	12,371 04	779	-
78	95	Revere,	15 85	20,051 00	-	20,051 00	1,265	-
97	96	Lowell,	15 75.2	197,729 44	-	197,729 44	12,552	-
88	97	Plymouth,	15 73.3	21,744 38	-	21,744 38	1,332	-
48	98	Raynham,	15 69.1	3,000 00	263 84	3,263 84	208	-
170	99	Wilmington,	15 68.7	8,344 71	138 00	8,482 71	222	-
49	100	Medfield,	15 68.6	3,200 00	-	3,200 00	204	-
63	101	Abington,	15 66.9	11,000 00	-	11,000 00	702	-
276	102	Lynnfield,	15 48.3	1,383 80	87 11	1,470 91	95	-

SCHOOL RETURNS.

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[illegible]

Showing the Comparative Amount of Money appropriated by the different Towns in the State — Continued.

		TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the sup- port of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contrib- uted for board and fuel.
For 1891-92.	For 1892-93.							
109	135	Westfield,	\$152	\$24,727 89	—	\$24,727 89	1,703	—
233	136	Hanover,	51.6	4,197 57	\$229 93	4,427 50	305	—
76	137	Granby,	51.1	1,677 00	64 41	1,741 41	120	—
247	138	Phillipston,	49	1,050 00	80 27	1,130 27	78	—
174	139	Wareham,	45.6	6,700 00	455 75	7,155 75	495	—
95	140	Chelsea,	41.7	68,814 21	—	68,814 21	4,763	—
156	141	Fitchburg,	44.3	61,210 71	—	61,210 71	4,238	—
73	142	Marblehead,	40	15,731 23	340 18	16,071 41	1,116	—
54	143	Townsend,	34.4	8,500 00	—	8,500 00	244	—
169	144	Dighton,	28	3,500 00	212 85	3,712 85	260	—
261	145	Deerfield,	27.9	5,900 00	154 67	6,054 67	424	—
90	146	Barre,	23.3	5,097 16	297 16	5,394 32	379	—
158	147	West Springfield,	21.6	13,465 37	225 05	13,690 42	963	—
181	148	Mendon,	19.9	1,860 00	171 70	1,831 70	129	\$50 00
192	149	Hudson,	17.7	11,000 00	356 27	11,356 27	801	—
154	150	Everett,	04	85,676 22	—	85,676 22	2,541	—
839	151	Attleborough,	98.8	17,000 00	793 65	17,793 65	1,272	125 00
52	152	Paxton,	98.4	811 11	—	811 11	58	—
138	153	Sunderland,	90.6	1,223 75	—	1,223 75	88	—
142	154	South Hadley,	84.2	9,350 00	284 25	9,634 25	696	—
147	155	Brookfield,	79.1	7,000 00	282 00	7,282 00	528	—
159	156	Middleborough,	78.7	12,781 37	—	12,781 37	927	—
125	157	Tisbury,	78.7	1,550 00	90 70	1,640 70	119	—
161	158	Leicester,	69.8	7,200 00	402 42	7,602 42	555	—
130	159	New Bedford,	64.8	116,298 00	1,206 40	117,444 40	8,605	—
	160	Northampton,	61.3	31,958 60	966 29	35,924 89	2,639	—

SCHOOL RETURNS.

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187	Cheshire,	18 57.4	3,000 00	-	3,000 00	221
176	Methuen,	18 55.9	12,211 79	452 64	12,664 43	934
180	Westford,	18 52.1	4,800 00	-	4,800 00	855
220	Gill,	18 51.3	1,500 00	-	1,500 00	111
141	Chelmsford,	18 43.5	6,000 00	881 98	6,881 98	475
151	Warron,	18 41.8	12,398 93	-	12,398 93	924
81	Wakefield,	18 41.7	21,200 00	-	21,200 00	1,680
87	Harwich,	18 38.4	5,300 00	160 68	5,460 68	408
144	Danvers,	18 36	15,353 00	452 00	15,805 00	1,183
197	Northborough,	18 35.1	4,138 91	-	4,138 91	310
217	Topsfield,	18 32.5	2,000 00	192 13	2,132 13	160
230	West Stockbridge,	18 31.2	4,300 00	-	4,300 00	923
160	Sheffield,	18 28.1	3,450 00	255 44	3,705 44	279
173	Matapoisett,	18 25.3	2,200 00	-	2,200 00	166
294	Gardner,	18 20.4	18,500 00	-	18,500 00	1,401
207	Grafton,	18 19.8	12,353 85	-	12,353 85	986
178	Acushnet,	18 16.3	1,800 00	161 30	1,961 30	149
153	Quincy,	18 13.3	57,487 00	-	57,487 00	4,377
179	Bolton,	18 09.8	1,550 00	165 86	1,715 86	131
345	Greenwich,	18 08.9	837 75	-	837 75	64
200	Woburn,	18 06.5	36,936 29	-	36,936 29	2,827
135	Ayer,	18 05.2	5,200 00	203 69	5,403 69	414
236	Burlington,	18 06.2	1,250 00	94 39	1,344 39	103
237	Avon,	18 04.3	3,443 46	-	3,443 46	264
204	Hubbardston,	18 01.7	2,200 00	-	2,200 00	169
167	Cottage City,	12 98.3	1,972 18	79 21	2,051 39	168
157	Boylston,	12 93.1	1,500 00	-	1,500 00	116
203	Medway,	12 92.2	6,442 58	367 74	6,810 32	527
209	Rehoboth,	12 91.8	3,500 00	910 85	3,810 85	295
101	Lee,	12 81.7	9,074 66	-	9,074 66	708
83	Shelburne,	12 81.4	3,306 00	64 22	3,370 22	263
128	Pepperell,	12 81.1	7,700 00	-	7,700 00	601
						225 00

Showing the Comparative Amount of Money appropriated by the different Towns in the State — Continued.

For 1891-92.	For 1892-93.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
163	198	Orleans,	\$12 80.7	\$2,000 00	\$49 14	\$2,049 14	160	-
146	194	Marlborough,	12 78.2	31,700 00	-	31,700 00	2,480	-
258	195	Royalston,	12 78.2	1,615 70	135 56	1,751 26	137	-
250	196	Middlefield,	12 76.7	800 00	29 89	829 89	65	-
57	197	Lakeville,	12 76.1	1,500 00	210 09	1,710 09	134	-
809	198	Florida,	12 76	1,020 85	-	1,020 85	80	-
162	199	Hopkinton,	12 73.8	8,000 00	-	8,000 00	628	\$50 00
194	200	Hamilton,	12 71.9	1,706 02	176 52	1,882 54	148	-
234	201	West Brookfield,	12 71.1	3,000 00	-	3,000 00	236	-
186	202	Whitman,	12 69.7	10,010 00	640 53	10,650 53	838	-
213	203	Somerset,	12 69.6	3,882 20	282 27	4,164 47	328	-
255	204	Williamstown,	12 65.6	8,467 48	-	8,467 48	669	-
222	205	Spencer,	12 59.3	23,650 00	-	23,650 00	1,378	-
189	206	West Bridgewater,	12 57.1	3,507 52	-	3,507 52	279	-
185	207	Pittsfield,	12 48.8	44,471 58	-	44,471 58	3,561	-
183	208	Norton,	12 44.2	2,435 00	327 18	2,762 18	222	-
149	209	Billerica,	12 41.7	5,513 58	-	5,513 58	441	-
196	210	Beverly,	12 40.9	21,742 07	371 47	22,113 54	1,782	-
210	211	Norfolk,	12 36.1	1,300 00	140 76	1,440 76	157	-
249	212	Hinsdale,	12 32.8	3,600 00	-	3,600 00	292	-
206	213	Carver,	12 31.2	1,650 00	160 00	1,810 00	147	50 00
172	214	Enfield,	12 29	2,200 00	-	2,200 00	179	-
229	215	Maynard,	12 25.2	6,297 55	-	6,297 55	514	-
131	216	Saugus,	12 23.7	8,407 34	-	8,407 34	687	-
190	217	Boxford,	12 23	1,500 00	334 64	1,834 64	150	-
173	218	Westminster,	12 21.3	3,200 00	-	3,200 00	262	-

SCHOOL RETURNS.

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232	Bellingham,	.	.	12 17.5	2,450 00	350 47	2,800 47	230
86	North Reading,	.	.	12 17.1	1,850 00	-	1,850 00	152
228	West Boylston,	.	.	12 14.5	6,000 00	-	6,000 00	494
222	Athol,	.	.	12 12.9	10,900 00	598 66	11,498 66	948
184	Westport,	.	.	12 06.6	4,500 00	814 45	4,814 45	399
224	Dracut,	.	.	12 05.9	4,131 12	487 75	4,618 87	383
303	Hawley,	.	.	12 04.8	1,000 00	-	1,000 00	83
266	Charlton,	.	.	12 03.7	3,318 75	304 60	3,623 35	301
282	Longmeadow,	.	.	12 01	4,272 58	207 37	4,479 95	373
179	Ashburnham,	.	.	11 99.1	4,200 00	248 79	4,448 79	371
235	Schuene,	.	.	11 99.9	5,200 00	-	5,200 00	437
198	Lenox,	.	.	11 88.5	5,800 00	-	5,800 00	488
246	Duxbury,	.	.	11 88.2	3,000 00	279 60	3,279 60	276
248	Oakham,	.	.	11 87.6	850 00	159 48	1,009 48	85
242	Adams,	.	.	11 78.9	20,336 97	-	20,336 97	1,725
208	Rutland,	.	.	11 75.1	1,727 42	-	1,727 42	147
205	Edgartown,	.	.	11 72.4	1,700 00	-	1,700 00	145
175	Carlisle,	.	.	11 55.4	982 14	-	982 14	85
214	Rockport,	.	.	11 54.9	7,807 52	-	7,807 52	676
257	Whately,	.	.	11 53.8	1,200 00	-	1,200 00	104
343	Wenham,	.	.	11 52.9	1,400 00	156 46	1,556 46	135
219	Mashpee,	.	.	11 52.6	700 00	49 21	749 21	65
182	Northfield,	.	.	11 52.5	2,800 00	92 86	2,892 86	251
177	Hanson,	.	.	11 49.4	2,000 00	-	2,000 00	174
137	Halifax,	.	.	11 49.4	1,000 00	-	1,000 00	87
262	Berkley,	.	.	11 46.4	1,609 16	121 99	1,731 15	151
267	Palmer,	.	.	11 40.1	18,300 00	473 01	18,773 01	1,208
224	Russell,	.	.	11 39.8	2,043 28	111 05	2,154 33	189
328	Plymouth,	.	.	11 39.2	900 00	-	900 00	79
278	Conway,	.	.	11 33	2,669 56	106 32	2,775 88	245
260	Franklin,	.	.	11 31.5	11,150 00	662 95	11,812 95	1,044
256	Hampden,	.	.	11 31.2	1,200 00	134 82	1,334 82	118
293								
								100 00
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BOARD OF EDUCATION.

Showing the Comparative Amount of Money appropriated by the different Towns in the State — Continued.

For 1891-92.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
For 1892-93.							
165	Granville,	\$11 29.9	\$2,000 00	—	\$2,000 00	177	—
189	Southwick,	11 27.7	1,500 00	\$90 12	1,590 12	141	—
126	Georgetown,	11 27.4	4,025 00	—	4,025 00	357	—
243	Fall River,	11 23.6	176,185 72	—	176,185 72	15,880	—
251	Truro,	11 20.2	1,700 00	70 00	1,770 00	158	—
215	Oxford,	11 18.5	5,000 00	—	5,000 00	447	—
263	Stoughton,	11 17.9	10,173 02	—	10,173 02	910	\$45 00
238	Douglas,	11 17.2	4,256 59	—	4,256 59	381	—
288	Nantucket,	11 15.6	5,211 51	311 00	5,522 51	495	—
211	Rochester,	11 11.7	1,600 00	178 85	1,778 85	160	—
279	Dartmouth,	11 07.4	5,000 00	293 50	5,293 50	478	—
244	Shirley,	11 06.4	2,300 00	134 14	2,434 14	220	—
245	Clinton,	11 06.2	22,478 63	—	22,478 63	2,032	—
227	Wilbraham,	11 05.2	2,500 00	252 02	2,752 02	249	—
289	Rowley,	11 05.2	2,100 00	—	2,100 00	190	—
273	Montague,	11 04.6	12,681 73	—	12,681 73	1,148	—
254	Provincetown,	11 00.2	9,000 00	—	9,000 00	818	—
201	Tyringham,	10 99.4	800 00	68 58	868 58	79	—
202	Richmond,	10 96.7	1,667 05	—	1,667 05	152	—
226	Newbury,	10 93.7	2,450 00	—	2,450 00	224	—
270	Chilmark,	10 93.7	350 00	—	350 00	32	—
239	Freetown,	10 86.9	2,000 00	—	2,000 00	184	18 15
344	Shutesbury,	10 76.5	828 06	33 17	861 23	80	27 00
273	Groveland,	10 68.3	5,341 81	—	5,341 81	500	—
277	Belchertown,	10 66.6	4,000 00	—	4,000 00	375	—
216	Dunstable,	10 65.5	650 00	—	650 00	61	—

SCHOOL RETURNS.

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193	277	Stow, .	10 57.6	1,800 00	149 04	1,449 04	137	-
936	278	Windsor, .	10 54.6	1,107 35	-	1,107 35	105	-
292	279	Millbury, .	10 49.4	9,560 35	-	9,560 35	911	-
323	280	Gosnold, .	10 48.1	60 00	34 33	94 33	9	15 00
259	281	Pembroke, .	10 47.6	1,900 00	111 51	2,011 51	192	-
275	282	Lunenburg, .	10 47.1	2,000 00	-	2,000 00	191	-
287	283	Hadley, .	10 45.9	3,200 00	168 00	3,368 00	322	-
252	284	Westhampton, .	10 39.8	850 00	33 41	883 41	85	-
280	285	Blackstone, .	10 38.2	9,500 00	-	9,500 00	915	-
228	286	Worthington, .	10 33.2	1,000 00	-	1,177 85	114	-
296	287	North Adams, .	10 31.2	30,369 07	474 43	30,843 50	2,991	-
231	288	Ludlow, .	10 30.4	4,400 00	92 78	4,492 78	436	610 00
140	289	Tolland, .	10 28.4	500 00	62 89	562 89	55	2 50
281	290	Salisbury, .	10 20.4	2,132 54	112 45	2,244 99	220	-
199	291	Ipswich, .	10 17.4	8,350 00	379 39	8,729 39	858	-
308	292	Dana, .	10 12.3	800 00	111 10	911 10	90	-
191	293	Becket, .	10 10.1	1,300 00	73 80	1,373 80	136	-
264	294	Middleton, .	9 96.2	1,600 00	73 67	1,673 67	168	-
286	295	Lawrence, .	9 95.8	89,672 76	-	89,672 76	9,005	-
253	296	Holyoke, .	9 92	73,501 93	-	73,501 93	7,409	-
271	297	North Brookfield, .	9 86.3	7,800 00	437 50	8,237 50	836	-
291	298	Chesterfield, .	9 77.2	900 00	57 66	957 66	98	-
265	299	New Salem, .	9 74.3	1,200 00	56 88	1,256 88	129	-
311	300	Newburyport, .	9 71.2	22,844 56	-	22,844 56	2,352	-
313	301	Otis, .	9 67.7	900 00	-	900 00	93	-
300	302	Templeton, .	9 63.4	5,000 00	260 48	5,260 48	546	-
334	303	Rowe, .	9 63.3	700 00	22 51	722 51	75	-
299	304	Williamsburg, .	9 54.2	4,100 00	127 16	4,227 16	443	-
305	305	Warwick, .	9 45	860 00	-	860 00	91	-
274	306	Sturbridge, .	9 28.3	8,500 00	-	8,500 00	377	-
240	307	Buckland, .	9 21.7	2,500 00	99 21	2,599 21	282	-
310	308	Dudley, .	9 17.3	5,364 06	213 70	5,577 76	608	-

BOARD OF EDUCATION.

Showing the Comparative Amount of Money appropriated by the different Towns in the State — Concluded.

For 1891-92.	For 1892-93.	TOWNS.	Sum appropriated by towns for each child between 5 and 16 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 16 years of age.	Amount contributed for board and fuel.
335	309	Chester.	\$9 15.2	\$2,000 00	\$114 33	\$2,114 33	231	-
302	310	Brimfield,	9 15	1,400 00	-	1,400 00	153	-
283	311	Agawam,	9 12.7	4,500 00	-	4,500 00	493	-
284	312	Berlin,	9 00.1	1,100 00	70 15	1,170 15	130	-
268	313	New Marlborough,	8 96.4	1,587 80	79 60	1,667 40	186	-
326	314	Erving,	8 91	1,300 00	170 16	1,470 16	165	-
304	315	Heath,	8 78.6	900 00	31 36	931 36	106	-
332	316	Savoy,	8 71	700 00	40 43	740 43	85	-
318	317	Amesbury,	8 63.8	14,019 52	-	14,019 52	1,623	-
31	318	Egremont,	8 62	1,000 00	-	1,000 00	116	-
329	319	Colrain,	8 60.7	2,600 00	68 44	2,668 44	310	-
337	320	Hancock,	8 60.2	800 00	-	800 00	93	-
297	321	Seekonk,	8 53.2	2,000 00	218 46	2,218 46	260	-
307	322	Lanesborough,	8 41.1	1,800 00	-	1,800 00	214	-
319	323	Washington,	8 41.1	750 00	49 12	799 12	95	-
316	324	Hardwick,	8 36.5	4,000 00	300 00	4,300 00	514	-
315	325	Southampton,	8 28.2	1,450 00	-	1,450 00	175	-
301	326	Hatfield,	8 23.2	1,950 00	91 67	2,041 67	248	-
314	327	Ware,	8 19.8	13,806 99	-	13,806 99	1,684	-
347	328	Wales,	8 19.1	1,122 02	57 49	1,179 51	144	-
285	329	Peru,	8 10.8	300 00	-	300 00	37	-
298	330	Huntington,	7 96.3	2,000 00	168 10	2,168 10	271	-
317	331	Southbridge,	7 90.6	13,448 17	-	13,448 17	1,701	-
322	332	Monterey,	7 74.4	700 00	113 20	813 20	105	-
312	333	Alford,	7 73.8	300 85	24 15	325 00	42	-
321	334	Chicopee,	7 58.3	22,036 89	-	22,036 89	2,906	-

SCHOOL RETURNS.

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331	Winchendon,	.	.	.	7 56.5	5,817 82	-	5,817 82	769	\$4 00
327	Wendell,	.	.	.	7 56.1	722 42	26 16	748 58	99	-
325	Sutton,	.	.	.	7 53.6	5,200 00	-	5,200 00	690	-
341	Auburn,	.	.	.	7 83.3	2,200 00	-	2,200 00	300	20 00
269	Pelham,	.	.	.	7 15.8	658 58	-	658 58	92	-
333	Goshen,	.	.	.	6 86.2	350 00	-	350 00	61	-
340	Holland,	.	.	.	6 76	200 00	9 57	209 57	31	-
341	Charlmont,	.	.	.	6 75.4	1,200 00	9 07	1,209 07	179	-
340	Sandisfield,	.	.	.	6 68.3	1,000 00	69 40	1,069 40	160	-
324	Prescott,	.	.	.	6 25	300 00	-	300 00	48	-
344	Plainfield,	.	.	.	6 16	450 00	36 67	486 67	79	-
345	Webster,	.	.	.	5 94	8,000 00	470 46	8,470 46	1,426	-
330	Leverett,	.	.	.	5 77.2	697 00	65 00	762 00	192	-
342	Clarksburg,	.	.	.	5 31.9	1,063 83	-	1,063 83	200	-
320	New Ashford,	.	.	.	3 88.5	66 00	19 48	86 48	22	-
259	Cummington,	.	.	.	3 71	500 00	56 54	556 54	150	-
351	Mount Washington,	.	.	.	3 60.4	75 00	11 50	86 50	24	-
349	Gay Head,	.	.	.	3 00	63 00	-	63 00	21	-
350		.	.	.						

GRADUATED TABLES — (COUNTY TABLES) — FIRST SERIES.

Table showing the Comparative Amount of Money appropriated by the different Towns in each of the Counties in the State for the Education of each Child in the Town between the Ages of 5 and 15 Years.

BARNSTABLE COUNTY.

F ^{or} 1891-92.	F ^{or} 1892-93.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
6	1	SANDWICH,	\$24 93	\$5,261 64	\$247 98	\$5,509 62	221	—
8	2	Barnstable,	22 18.7	12,500 00	546 50	13,046 50	588	\$130 00
6	3	Bourne,	22 04.1	4,970 80	253 14	5,223 94	237	—
4	4	Falmouth,	20 71.9	7,500 00	332 13	7,832 13	378	—
2	5	Wellfleet,	19 36	3,100 00	75 09	3,175 09	164	—
1	6	Yarmouth,	17 52.9	4,200 00	200 00	4,400 00	261	—
12	7	Chatham,	15 40.3	4,115 00	120 97	4,235 97	275	—
9	8	Dennis,	16 35.3	6,500 00	194 00	6,694 00	436	—
7	9	Eastham,	15 25.2	900 00	45 65	945 65	62	—
10	10	Brewster,	14 80.3	1,949 82	78 28	2,028 10	137	—
8	11	Harwich,	13 38.4	5,300 00	160 68	5,460 68	408	—
11	12	Orleans,	12 80.7	2,000 00	49 14	2,049 14	160	—
13	13	Mashpee,	11 52.6	700 00	49 21	749 21	65	—
14	14	Truro,	11 20.2	1,700 00	70 00	1,770 00	158	—
15	15	Provincetown,	11 00.2	9,000 00	—	9,000 00	318	—

BERKSHIRE COUNTY.

8	1	GREAT BARRINGTON,	\$18 43.1	\$11,570 00	\$613 00	\$12,183 00	661	—
1	2	Stockbridge,	17 85.7	6,500 00	—	6,500 00	364	\$100 00

SCHOOL RETURNS.

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5	5	Dalton,	14 88	7,500 00	-	7,500 00	504
8	4	Cheshire,	13 57.4	9,000 00	-	9,000 00	221
18	4	West Stockbridge,	13 31.2	4,300 00	-	4,300 00	328
6	6	Sheffield,	13 28.1	3,450 00	255 44	3,705 44	279
4	7	Lee,	12 81.7	9,074 66	-	9,074 66	708
22	8	Florida,	12 76	1,020 85	-	1,020 85	80
16	9	Williamstown,	12 65.6	8,467 48	-	8,467 48	669
7	10	Pittsfield,	12 48.8	44,471 58	-	44,471 58	3,561
15	11	Hinsdale,	12 32.8	3,600 00	-	3,600 00	292
14	12	Lenox,	11 88.5	5,800 00	-	5,800 00	488
12	13	Adams,	11 78.9	20,336 97	-	20,336 97	1,725
10	14	Tyringham,	10 99.4	800 00	68 58	868 58	79
11	15	Richmond,	10 96.7	1,667 05	-	1,667 05	152
30	16	Windsor,	10 54.6	1,107 35	-	1,107 35	105
20	17	North Adams,	10 31.2	30,369 07	474 43	30,843 50	2,991
9	18	Becket,	10 10.1	1,300 00	73 80	1,373 80	136
24	19	Otis,	9 67.7	900 00	-	900 00	93
17	20	New Marlborough,	8 96.4	1,587 80	79 60	1,667 40	186
29	21	Savoy,	8 71	700 00	40 43	740 43	85
2	22	Egremont,	8 62	1,000 00	-	1,000 00	116
31	23	Hancock,	8 60.2	800 00	-	800 00	93
21	24	Lanesborough,	8 41.1	1,800 00	-	1,800 00	214
25	25	Washington,	8 41.1	750 00	49 12	799 12	95
18	26	Peru,	8 10.8	900 00	-	900 00	37
27	27	Monterey,	7 74.4	700 00	113 20	813 20	105
23	28	Alford,	7 73.8	900 85	24 15	925 00	42
28	29	Sandisfield,	6 68.3	1,000 00	69 40	1,069 40	160
26	30	Clarksburg,	5 31.9	1,063 83	-	1,063 83	200
19	31	New Ashford,	3 88.5	66 00	19 48	85 48	22
32	32	Mount Washington,	3 60.4	75 00	11 50	86 50	24

BOARD OF EDUCATION.

BRISTOL COUNTY.

F or 1891-92.	F or 1892-93.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
4	1	NORTH ATTLEBOROUGH, .	\$16 48.6	\$18,610 74	\$893 32	\$19,504 06	1,183	-
7	2	Easton, .	15 88	11,000 00	1,371 04	12,371 04	779	-
1	3	Raynham, .	15 69.1	3,000 00	263 84	3,263 84	208	-
3	4	Taunton, .	15 41.6	67,967 21	1,082 13	69,049 34	4,479	-
6	5	Fairhaven, .	15 23.9	6,434 07	316 98	6,751 05	443	-
5	6	Swansea, .	15 10.2	3,503 88	-	3,503 88	232	-
2	7	Mansfield, .	14 96.4	9,027 42	459 89	9,487 31	634	-
10	8	Dighton, .	14 28	3,500 00	212 85	3,712 85	260	-
8	9	Attleborough, .	13 98.8	17,000 00	793 65	17,793 65	1,272	\$125 00
9	10	New Bedford, .	13 64.8	116,238 00	1,206 40	117,444 40	8,605	-
11	11	Acushnet, .	13 16.3	1,800 00	161 30	1,961 30	149	-
14	12	Rehoboth, .	12 91.8	3,500 00	310 85	3,810 85	295	225 00
15	13	Somerset, .	12 69.6	3,892 20	282 27	4,164 47	328	-
12	14	Norton, .	12 44.2	2,435 00	327 18	2,762 18	222	-
13	15	Westport, .	12 06.6	4,500 00	314 45	4,814 45	399	-
18	16	Berkley, .	11 46.4	1,609 16	121 99	1,731 15	151	-
17	17	Fall River, .	11 23.6	176,185 72	-	176,185 72	15,680	-
19	18	Dartmouth, .	11 07.4	5,000 00	293 50	5,293 50	478	-
16	19	Freetown, .	10 86.9	2,000 00	-	2,000 00	184	18 15
20	20	Seekonk, .	8 53.2	2,000 00	218 46	2,218 46	260	-

DUKES COUNTY.

-	1	WEST TISBURY, .	\$17 34.4	\$1,044 11	\$13 88	\$1,057 99	61	-
1	2	Tisbury, .	13 78.7	1,560 00	90 70	1,640 70	119	-

SCHOOL RETURNS.

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2	3	Cottage City,	12 98.3	1,972 18	79 21	2,051 39	158
3	4	Edgartown,	11 72.4	1,700 00	-	1,700 00	145
4	5	Chilmark,	10 93.7	350 00	-	350 00	32
5	6	Gosnold,	10 48.1	60 00	34 83	94 83	9
6	7	Gay Head,	3 00	63 00	-	63 00	21

ESSEX COUNTY.

1	1	MALDEN,	\$42 17.1	\$4,090 62	-	\$4,090 62	97
2	2	Manchester,	24 92.2	5,009 39	-	5,009 39	201
3	3	Swampscott,	19 18.1	8,881 00	-	8,881 00	463
4	4	Peabody,	18 42.2	32,000 00	\$644 56	32,644 56	1,772
27	5	Merrimac,	17 10.1	7,087 17	180 84	7,268 01	425
6	6	North Andover,	17 09.3	11,538 00	-	11,538 00	675
7	7	Lynn,	16 71.3	147,283 40	-	147,283 40	8,869
10	8	Salem,	16 60.4	82,508 04	2,507 49	85,015 53	5,120
11	9	Essex,	16 20.3	3,500 00	113 41	3,613 41	233
9	10	Gloucester,	16 19.7	58,909 35	-	58,909 35	3,637
30	11	Lynnfield,	15 48.3	1,383 80	87 11	1,470 91	95
14	12	Haverhill,	15 05.9	69,739 61	-	69,739 61	4,631
16	13	Bradford,	14 87.7	9,700 00	-	9,700 00	652
5	14	Andover,	14 83.6	14,999 98	-	14,999 98	1,011
20	15	West Newbury,	14 72.6	3,474 01	472 60	3,946 61	268
8	16	Marblehead,	14 40	15,731 23	340 18	16,071 41	1,116
17	17	Methuen,	13 55.9	12,211 79	452 64	12,664 43	934
15	18	Danvers,	13 36	15,353 00	452 00	15,805 00	1,183
23	19	Topsfield,	13 32.5	2,000 00	132 13	2,132 13	160
19	20	Hamilton,	12 71.9	1,706 02	176 52	1,882 54	148
21	21	Beverly,	12 40.9	21,742 07	371 47	22,113 54	1,732
13	22	Saugus,	12 23.7	8,407 34	-	8,407 34	687
18	23	Boxford,	12 23	1,500 00	334 64	1,834 64	150
28	24	Rockport,	11 54.9	7,807 52	-	7,807 52	676
							\$44 00

ESSEX COUNTY — CONCLUDED.

For 1891-92.	TOWNS.	Sum appropriated by town for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
25	Wenham, .	\$11 52.9	\$1,400 00	\$156 46	\$1,556 46	135	-
12	Georgetown, .	11 27.4	4,025 00	-	4,025 00	357	-
33	Rowley, .	11 05.2	2,100 00	-	2,100 00	190	-
26	Newbury, .	10 93.7	2,450 00	-	2,450 00	224	-
24	Groveland, .	10 68.3	5,341 81	-	5,341 81	500	-
31	Salisbury, .	10 20.4	2,132 54	112 45	2,244 99	220	-
22	Ipswich, .	10 17.4	8,350 00	379 39	8,729 39	858	-
29	Middleton, .	9 96.2	1,600 00	73 67	1,673 67	168	-
32	Lawrence, .	9 95.8	89,672 76	-	89,672 76	9,005	-
34	Newburyport, .	9 71.2	22,844 56	-	22,844 56	2,352	-
35	Amesbury, .	8 63.8	14,019 52	-	14,019 52	1,623	-

FRANKLIN COUNTY.

For 1891-92.	TOWNS.	Sum appropriated by town for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
2	BERMADSTON, .	\$22 19.6	\$2,050 00	\$103 10	\$2,153 10	97	-
3	Ashfield, .	18 10.8	1,800 00	119 55	1,919 55	106	-
7	Orange, .	16 24.8	13,600 00	-	13,600 00	897	-
15	Leyden, .	15 42.1	650 00	275 26	925 26	60	-
5	Greenfield, .	14 84.9	13,928 66	-	13,928 66	938	-
26	Monroe, .	14 61.1	554 14	15 69	569 83	39	-
11	Deerfield, .	14 27.9	5,900 00	154 67	6,054 67	424	-
1	Sunderland, .	13 90.6	1,223 75	-	1,223 75	88	-
8	Gill, .	13 51.3	1,600 00	-	1,500 00	111	-
4	Shelburne, .	12 81.4	3,306 00	64 22	3,370 22	263	-

SCHOOL RETURNS.

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13	11	Hawley,	.	.	.	12 04.8	1,000 00	-	1,000 00	88	-
24	12	Whately,	.	.	.	11 53.8	1,200 00	-	1,200 00	104	-
6	13	Northfield,	.	.	.	11 52.5	2,800 00	92 86	2,892 86	251	-
10	14	Conway,	.	.	.	11 33	2,669 56	106 32	2,775 88	245	\$100 00
14	15	Montague,	.	.	.	11 04.6	12,681 73	-	12,681 73	1,148	-
25	16	Shutesbury,	.	.	.	10 76.5	828 06	33 17	861 23	80	27 00
12	17	New Salem,	.	.	.	9 74.3	1,200 00	56 88	1,256 88	129	-
21	18	Rowe,	.	.	.	9 68.3	700 00	22 51	722 51	75	-
17	19	Warwick,	.	.	.	9 45	860 00	-	860 00	91	-
9	20	Buckland,	.	.	.	9 21.7	2,500 00	99 21	2,599 21	282	-
18	21	Erving,	.	.	.	8 91	1,300 00	170 16	1,470 16	165	-
16	22	Heath,	.	.	.	8 78.6	900 00	31 36	931 36	106	-
20	23	Colrain,	.	.	.	8 60.7	2,600 00	68 44	2,668 44	310	-
19	24	Wendell,	.	.	.	7 56.1	722 42	26 16	748 58	99	4 00
22	25	Charlemont,	.	.	.	6 75.4	1,200 00	9 07	1,209 07	179	-
23	26	Leverett,	.	.	.	5 77.2	697 00	65 00	762 00	132	-

HAMPDEN COUNTY.

1	1	SPRINGFIELD,	.	.	.	\$18 53.2	\$135,623 10	-	\$135,623 10	7,318	-
10	2	Blandford,	.	.	.	17 39.4	2,000 00	\$522 18	2,522 18	145	-
2	3	Montgomery,	.	.	.	16 15.1	500 00	49 14	549 14	84	-
14	4	Monson,	.	.	.	14 55.7	7,401 38	401 35	7,802 73	536	\$60 00
3	5	Westfield,	.	.	.	14 52	24,727 89	-	24,727 89	1,703	-
6	6	West Springfield,	.	.	.	14 21.6	13,465 37	225 05	13,690 42	963	-
8	7	Longmeadow,	.	.	.	12 01	4,272 58	207 87	4,479 95	373	-
9	8	Palmer,	.	.	.	11 40.1	13,300 00	473 01	13,773 01	1,208	-
20	9	Russell,	.	.	.	11 39.8	2,043 28	111 05	2,154 33	189	-
16	10	Hampden,	.	.	.	11 31.2	1,200 00	134 82	1,334 82	118	-
7	11	Granville,	.	.	.	11 29.9	2,000 00	-	2,000 00	177	-
4	12	Southwick,	.	.	.	11 27.7	1,500 00	90 12	1,590 12	141	-

BOARD OF EDUCATION.

HAMPDEN COUNTY — CONCLUDED.

For 1881-82.	For 1882-83.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
11	13	Wilbraham,	\$11 05.2	\$2,500 00	\$252 02	\$2,752 02	249	-
12	14	Ludlow,	10 30.4	4,400 00	92 78	4,492 78	436	\$610 00
5	15	Tolland,	10 23.4	500 00	62 89	562 89	55	2 50
13	16	Holyoke,	9 92	73,501 93	114 33	73,501 93	7,409	-
21	17	Chester,	9 15.2	2,000 00	-	2,114 33	231	-
17	18	Brimfield,	9 15	1,400 00	-	1,400 00	153	-
16	19	Agawam,	9 12.7	4,500 00	-	4,500 00	493	-
22	20	Wales,	8 19.1	1,122 02	57 49	1,179 51	144	-
19	21	Chicopee,	7 58.3	22,036 89	-	22,036 89	2,906	-
18	22	Holland,	6 76	200 00	9 57	209 57	31	-

HAMPSHIRE COUNTY.

2	1	EASTHAMPTON,	\$17 48.3	\$11,755 45	\$220 74	\$11,976 19	685	-
6	2	Amherst,	15 93.8	8,870 46	278 03	9,148 49	574	-
1	3	Granby,	14 51.1	1,677 00	64 41	1,741 41	120	-
4	4	South Hadley,	13 84.2	9,350 00	284 25	9,634 25	696	-
3	5	Northampton,	13 61.3	34,958 60	966 29	35,924 89	2,639	-
21	6	Greenwich,	13 08.9	887 75	-	887 75	64	-
8	7	Middlefield,	12 76.7	800 00	29 89	829 89	65	-
5	8	Enfield,	12 29	2,200 00	-	2,200 00	179	-
11	9	Belchertown,	10 66.6	4,000 00	-	4,000 00	375	-
12	10	Hadley,	10 45.9	3,200 00	168 00	3,368 00	322	-

SCHOOL RETURNS.

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9	Westhampton,	10 39.3	850 00	33 41	883 41	85
7	Worthington,	10 33.2	1,000 00	177 85	1,177 85	114
13	Chesterfield,	9 77.2	900 00	57 66	957 66	98
15	Williamsburg,	9 54.2	4,100 00	127 16	4,227 16	443
18	Southampton,	8 28.5	1,450 00	-	1,450 00	175
16	Hatfield,	8 23.2	1,950 00	91 67	2,041 67	248
17	Ware,	8 19.8	13,806 99	-	13,806 99	1,684
14	Huntington,	7 96.3	2,000 00	158 10	2,158 10	271
10	Pelham,	7 15.8	658 58	-	658 58	92
19	Goshen,	6 86.2	350 00	-	350 00	51
22	Prescott,	6 25	300 00	-	300 00	48
20	Plainfield,	6 16	450 00	36 67	486 67	79
23	Cumington,	3 71	500 00	56 54	556 54	150
						\$20 00

MIDDLESEX COUNTY.

1	WESTON, .	\$42 52.8	\$7,400 00	-	\$7,400 00	174
3	Lexington, .	25 82.6	11,157 00	-	11,157 00	432
2	Newton, .	25 67.5	114,786 24	\$2,548 98	117,335 22	4,570
17	Lincoln, .	23 16.8	3,289 91	-	3,289 91	142
7	Arlington, .	22 27.6	21,007 17	-	21,007 17	943
4	Concord, .	21 53.9	13,850 00	-	13,850 00	643
25	Melrose, .	21 40.3	33,090 42	-	33,090 42	1,546
5	Medford, .	21 33.7	41,587 73	-	41,587 73	1,949
10	Littleton, .	21 24.3	3,338 23	145 73	3,483 96	164
9	Belmont, .	21 01.6	8,406 61	-	8,406 61	400
14	Cambridge, .	19 49.7	242,765 93	-	242,765 93	12,451
11	Winchester, .	19 43	19,119 48	-	19,119 48	984
30	Sudbury, .	19 15.8	3,400 00	163 39	3,563 39	186
8	Groton, .	18 78.7	6,200 00	-	6,200 00	330
6	Waltham, .	18 25.7	54,444 70	-	54,444 70	2,982
						\$48 00

BOARD OF EDUCATION.

MIDDLESEX COUNTY — CONCLUDED.

For 1891-92.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
31	Natick,	\$17 87.2	\$25,306 98	-	\$25,306 98	1,416	-
28	Wayland,	17 65.2	5,700 00	\$160 63	5,860 63	382	-
13	Somerville,	17 34.1	124,701 41	-	124,701 41	7,191	-
12	Sherborn,	17 26.8	2,225 00	99 81	2,624 81	152	-
20	Malden,	17 01.4	71,544 88	-	71,544 88	4,205	-
15	Acton,	16 66.6	4,400 00	-	4,400 00	264	-
21	Watertown,	16 60.4	21,684 97	-	21,684 97	1,806	-
22	Framingham,	16 56.9	26,500 00	1,088 31	27,588 31	1,665	-
23	Reading,	16 51.6	11,000 00	-	11,000 00	666	-
18	Tyngsborough,	16 21.6	1,200 00	-	1,200 00	74	-
32	Stoneham,	16 21.3	14,900 00	-	14,900 00	919	-
27	Ashland,	15 92	6,400 00	-	6,400 00	402	-
43	Lowell,	15 75.2	197,729 44	-	197,729 44	12,552	-
26	Wilmington,	15 68.7	3,344 71	198 00	3,482 71	222	-
45	Boxborough,	15 38.4	800 00	-	800 00	52	-
29	Bedford,	14 98.8	2,293 29	-	2,293 29	153	-
16	Ashby,	14 91.2	1,700 00	-	1,700 00	114	-
35	Tewksbury,	14 70.5	4,500 00	-	4,500 00	306	-
33	Holliston,	14 65.5	6,800 00	-	6,800 00	464	-
44	Townsend,	14 34.4	3,500 00	-	3,500 00	244	-
19	Hudson,	14 17.7	11,000 00	356 27	11,356 27	801	-
46	Everett,	14 04	35,676 22	-	35,676 22	2,541	-
37	Westford,	13 62.1	4,800 00	-	4,800 00	355	-
40	Chelmsford,	13 43.5	6,000 00	381 98	6,381 98	475	-
37	Wakefield,	13 41.7	21,200 00	-	21,200 00	1,580	-
23	Woburn,	13 06.5	36,936 29	-	36,936 29	2,827	-
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SCHOOL RETURNS.

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36	42	Ayer,	13 05.2	5,200 00	203 69	5,403 69	414	-
52	43	Burlington,	13 05.2	1,250 00	94 39	1,344 39	103	-
34	44	Pepperell,	12 81.1	7,700 00	-	7,700 00	601	-
38	45	Marlborough,	12 78.2	31,700 00	-	31,700 00	2,480	-
42	46	Hopkinton,	12 73.8	8,000 00	-	8,000 00	628	\$50 00
39	47	Billerica,	12 41.7	5,513 58	-	5,513 58	444	-
51	48	Maynard,	12 25.2	6,297 55	-	6,297 55	514	-
24	49	North Reading,	12 17.1	1,850 00	-	1,850 00	152	-
54	50	Dracut,	12 05.9	4,131 12	487 75	4,618 87	383	-
49	51	Carlisle,	11 55.4	982 14	-	982 14	85	-
53	52	Shirley,	11 06.4	2,300 00	194 14	2,494 14	220	-
50	53	Dunstable,	10 65.5	650 00	-	650 00	61	-
47	54	Stow,	10 57.6	1,300 00	149 04	1,449 04	137	-

NANTUCKET COUNTY.

		NANTUCKET,	\$11 15.6	\$5,211 51	\$911 00	\$5,522 51	495	-
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NORFOLK COUNTY.

1	1	BROOKLINE,	\$40 75.4	\$87,867 64	-	\$87,867 64	2,156	-
2	2	Milton,	29 19.3	21,866 13	-	21,866 13	749	\$250 00
3	3	Dedham,	24 11.5	28,384 17	-	28,384 17	1,177	-
4	4	Wellesley,	23 87.3	12,414 45	\$90 00	12,414 45	520	-
5	5	Cohasset,	23 77.7	8,796 26	239 07	9,035 33	380	-
7	6	Walpole,	22 05.4	8,000 00	424 80	8,424 80	382	-
6	7	Dover,	21 85.7	1,925 00	173 33	2,098 33	96	-
8	8	Needham,	21 84.8	10,400 00	-	10,400 00	476	-

BOARD OF EDUCATION.

NORFOLK COUNTY — CONCLUDED.

For 1891-92.	For 1892-93.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
14	9	Randolph,	\$19 01.1	\$10,518 49	\$508 00	\$11,026 49	580	-
20	10	Sharon,	18 79.5	3,700 00	153 00	3,853 00	205	-
12	11	Norwood,	18 53.1	14,158 11	-	14,158 11	764	-
9	12	Weymouth,	18 46.4	31,429 89	808 89	32,238 78	1,746	-
11	13	Wrentham,	17 99.2	7,700 00	450 43	8,150 43	453	-
15	14	Canton,	16 60.1	11,820 00	647 61	12,467 61	751	-
13	15	Hyde Park,	16 37.5	31,505 68	-	31,505 68	1,924	\$400 00
18	16	Braintree,	16 30.5	12,791 39	774 41	13,565 80	832	-
10	17	Medfield,	15 68.6	3,200 00	-	3,200 00	204	-
16	18	Holbrook,	15 16.7	6,208 04	268 64	6,476 68	427	-
19	19	Millis,	15 14.4	2,392 31	-	2,392 31	154	-
17	20	Foxborough,	14 65	6,250 00	503 78	6,753 78	461	-
21	21	Quincy,	13 13.3	57,487 00	-	57,487 00	4,377	-
25	22	Avon,	13 04.3	3,443 46	-	3,443 46	264	-
22	23	Medway,	12 92.2	6,442 58	367 74	6,810 32	527	-
23	24	Norfolk,	12 36.1	1,800 00	140 76	1,940 76	157	-
24	25	Bellingham,	12 17.5	2,450 00	350 47	2,800 47	230	-
26	26	Franklin,	11 31.5	11,150 00	662 95	11,812 95	1,044	-
27	27	Stoughton,	11 17.9	10,173 02	-	10,173 02	910	45 00

PLYMOUTH COUNTY.

1	1	MILL	\$23 69.6	\$2,440 75	-	\$2,440 75	103	-
4	2	Hingham,	21 82.6	12,152 25	\$660 00	12,812 25	587	-
3	3	Bridgewater,	20 57.4	9,600 00	419 58	10,019 58	487	-

SCHOOL RETURNS.

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2	Kingston,	18 41.7	4,400 00	204 31	4,604 31	250	\$150 00
13	Norwell,	16 40.4	3,200 00	294 13	3,494 13	213	-
11	Brockton,	16 15.7	76,196 06	1,168 17	77,364 23	4,788	-
16	Rockland,	16 10.9	13,500 00	-	13,500 00	838	-
7	Plymouth,	15 73.3	21,744 38	-	21,744 38	1,382	-
6	Abington,	15 66.9	11,000 00	-	11,000 00	702	-
8	Marion,	15 31.2	2,200 00	142 76	2,342 76	153	-
9	East Bridgewater,	14 59.4	6,000 00	465 44	6,465 44	443	-
12	Marshfield,	14 65.3	3,100 00	-	3,100 00	213	-
23	Hanover,	14 51.6	4,197 57	229 93	4,427 50	305	-
17	Wareham,	14 45.6	6,700 00	455 75	7,155 75	495	-
15	Middleborough,	13 78.7	12,781 37	-	12,781 37	927	-
10	Matapoisett,	13 25.3	2,200 00	-	2,200 00	166	-
16	Lakeville,	12 76.1	1,500 00	210 09	1,710 09	134	-
5	Whitman,	12 69.7	10,000 00	640 53	10,640 53	838	-
18	West Bridgewater,	12 57.1	3,507 52	-	3,507 52	279	-
19	Carver,	12 31.2	1,650 00	160 00	1,810 00	147	50 00
21	Scituate,	11 89.9	5,200 00	-	5,200 00	437	-
20	Duxbury,	11 88.2	3,000 00	279 60	3,279 60	276	-
24	Hanson,	11 49.4	2,000 00	-	2,000 00	174	-
14	Halifax,	11 49.4	1,000 00	-	1,000 00	87	-
26	Plympton,	11 39.2	900 00	-	900 00	79	-
27	Rochester,	11 11.7	1,600 00	178 85	1,778 85	160	-
22	Pembroke,	10 47.6	1,900 00	111 51	2,011 51	192	15 00
25							

SUFFOLK COUNTY.

1	BOSTON,	\$22 84.2	\$1,613,386 87	\$58,114 48	\$1,671,501 35	73,176	-
4	Winthrop,	17 86.6	7,500 00	450 60	7,950 60	445	-
2	Revere,	15 85	20,051 00	-	20,051 00	1,265	-
3	Chelsea,	14 44.7	68,314 21	-	68,314 21	4,763	-

BOARD OF EDUCATION.

WORCESTER COUNTY.

For 1891-92.	TOWNS.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
1	ROPERDALE.	\$22 69.8	\$1,403 48	-	\$4,403 48	194	-
3	Sterling,	20 74.7	3,817 45	-	3,817 45	184	-
4	Harvard,	20 35.7	2,850 00	-	2,850 00	140	-
19	Princeton,	19 86	2,500 00	\$101 68	2,601 68	181	\$7 20
2	Lancaster,	19 46.1	6,500 00	-	6,500 00	334	-
5	Leominster,	18 76.8	19,500 00	-	19,500 00	1,039	-
16	Westborough,	17 82.8	12,230 29	-	12,230 29	686	-
13	Upton,	17 71.8	4,553 56	-	4,553 56	257	57 00
8	Worcester,	17 27.5	272,785 89	-	272,785 89	15,790	-
10	Petersham,	17 01.6	2,341 93	176 49	2,518 42	148	-
23	Milford,	16 52.7	20,983 92	406 77	21,370 69	1,293	-
12	Shrewsbury,	16 26	4,000 00	-	4,000 00	246	-
9	Northbridge,	16 01.5	12,505 89	402 29	12,908 18	806	-
7	Holden,	15 04.2	6,820 96	293 94	7,114 90	473	150 00
17	Uxbridge,	14 81.4	8,000 00	-	8,000 00	540	-
14	New Braintree,	14 57.2	1,603 00	-	1,603 00	110	-
6	Southborough,	14 55.1	5,000 00	383 92	5,383 92	370	-
10	Phillipston,	14 49	1,030 00	80 27	1,110 27	78	-
40	Fitchburg,	14 44.3	61,210 71	-	61,210 71	4,288	-
21	Barre,	14 23.3	5,097 16	297 16	5,394 32	379	-
11	Mendon,	14 19.9	1,660 00	171 70	1,831 70	129	50 00
27	Paxton,	13 98.4	811 11	-	811 11	58	-
68	Brookfield,	13 79.1	7,000 00	282 00	7,282 00	528	-
18	Leicester,	13 69.8	7,200 00	402 42	7,602 42	556	-
15	Warren,	13 41.8	12,398 93	-	12,398 93	924	-
20	Northborough,	13 35.1	4,138 91	-	4,138 91	310	-
29							
26							
For 1892-93.							

SCHOOL RETURNS.

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49	27	Gardner,	13	20.4	18,500 00	-	18,500 00	1,401	-
31	28	Grafton,	13	19.8	12,353 85	-	12,353 85	986	-
26	29	Bolton,	13	09.8	1,550 00	165 86	1,715 86	131	-
25	30	Hubbardston,	13	01.7	2,200 00	-	2,200 00	169	-
22	31	Boylston,	12	93.1	1,500 00	-	1,500 00	116	-
41	32	Royalston,	12	78.2	1,615 70	135 56	1,751 26	137	-
35	33	West Brookfield,	12	71.1	3,000 00	-	3,000 00	236	-
33	34	Spencer,	12	59.3	23,650 00	-	23,650 00	1,378	-
24	35	Westminster,	12	21.3	8,200 00	-	8,200 00	262	-
34	36	West Boylston,	12	14.5	6,000 00	-	6,000 00	494	-
28	37	Athol,	12	12.9	10,900 00	598 66	11,498 66	948	-
46	38	Charlton,	12	03.7	3,318 75	304 60	3,623 35	301	-
36	39	Ashburnham,	11	99.1	4,200 00	248 79	4,448 79	371	-
38	40	Oakham,	11	87.6	850 00	159 48	1,009 48	85	-
30	41	Rutland,	11	75.1	1,727 42	-	1,727 42	147	-
32	42	Oxford,	11	18.5	5,000 00	-	5,000 00	447	-
37	43	Douglas,	11	17.2	4,256 59	-	4,256 59	381	-
39	44	Clinton,	11	06.2	22,478 63	-	22,478 63	2,032	-
48	45	Millbury,	10	49.4	9,560 35	-	9,560 35	911	-
44	46	Lunenburg,	10	47.1	2,000 00	-	2,000 00	191	-
45	47	Blackstone,	10	38.2	9,500 00	-	9,500 00	915	-
51	48	Dana,	10	12.3	800 00	-	800 00	90	-
42	49	North Brookfield,	9	85.3	7,800 00	111 10	7,911 10	836	-
50	50	Templeton,	9	63.4	5,000 00	437 50	5,437 50	546	-
43	51	Sturbridge,	9	28.3	3,500 00	260 48	3,760 48	377	-
52	52	Dudley,	9	17.3	5,364 06	-	5,364 06	608	-
47	53	Berlin,	9	00.1	1,100 00	213 70	1,313 70	130	-
53	54	Hardwick,	8	36.5	4,000 00	70 15	4,070 15	514	-
54	55	Southbridge,	7	90.6	13,448 17	300 00	13,748 17	1,701	-
57	56	Winchendon,	7	56.5	5,817 82	-	5,817 82	769	-
55	57	Sutton,	7	53.6	5,200 00	-	5,200 00	690	-
59	58	Auburn,	7	33.3	2,200 00	-	2,200 00	300	-
56	59	Webster,	5	94	8,000 00	470 46	8,470 46	1,426	-

BOARD OF EDUCATION.

GRADUATED TABLES — FIRST SERIES.

Showing the Comparative Amount of Money appropriated by the different Counties in the State for the Education of each Child between the Ages of 5 and 15 Years in the County.

For 1891-92.	For 1892-93.	COUNTIES.	Sum appropriated by towns for each child between 5 and 15 yrs. of age.	Amount raised by taxes for the support of Schools.	Income of Funds, with Dog Tax, appropriated to Schools.	TOTAL.	No. of Children between 5 and 15 years of age.	Amount contributed for board and fuel.
2	1	Suffolk,	\$22 20.1	\$1,709,752 08	\$58,565 08	\$1,768,317 16	79,649	—
1	2	Norfolk,	19 16.9	414,123 62	6,563 88	420,687 50	21,946	\$695 00
3	3	Middlesex,	17 49.4	1,312,361 00	6,152 11	1,319,013 11	75,396	98 00
4	4	Barnstable,	16 54.8	69,697 26	2,422 77	72,120 03	130 00	130 00
5	5	Plymouth,	15 43.5	223,669 90	5,620 65	229,290 55	14,855	215 00
8	6	Worcester,	14 02	700,534 53	6,474 98	707,009 51	50,426	264 20
6	7	Essex,	18 97.9	700,449 53	6,987 56	707,437 09	50,607	44 00
7	8	Hampden,	12 91.3	320,194 44	2,803 17	322,997 61	25,012	672 50
9	9	Bristol,	12 90.8	459,193 40	8,630 10	467,823 50	36,241	368 15
10	10	Dukes,	12 76.5	6,789 29	218 12	6,957 41	545	—
13	11	Franklin,	12 40	78,371 32	1,513 63	79,884 95	6,442	131 00
11	12	Berkshire,	11 96.9	175,378 49	1,892 13	177,270 62	14,810	100 00
12	13	Hampshire,	11 74.4	103,964 83	2,750 67	108,715 50	9,257	20 00
14	14	Nantucket,	11 15.6	5,211 51	311 00	5,522 51	495	—
AGGREGATE FOR THE STATE.								
STATE, .	. . . . .	. . . . .	\$16 89	\$6,282,141 20	\$110,905 85	\$6,393,047 05	390,039	\$2,737 85

GRADUATED TABLES — FIRST SERIES.

Showing the Comparative Amount of Money, including Voluntary Contributions, appropriated by the different Counties in the State for the Education of each Child between the Ages of 5 and 15 Years in the County.

For 1891-92.	For 1892-93.	COUNTIES.	TOTALS.
2	1	Suffolk,	\$22 20.1
1	2	Norfolk,	19 20
3	3	Middlesex,	17 49.5
4	4	Barnstable,	16 57.8
5	5	Plymouth,	15 44.9
8	6	Worcester,	14 02.5
6	7	Essex,	13 97.9
7	8	Hampden,	12 94
9	9	Bristol,	12 91.8
10	10	Dukes,	12 76.5
13	11	Franklin,	12 42
11	12	Berkshire,	11 97.6
12	13	Hampshire,	11 74.6
14	14	Nantucket,	11 15.6
STATE,			\$16 39.7

GRADUATED TABLES — SECOND SERIES.

The next Table exhibits the appropriation of the cities and towns, as compared with their respective valuation in 1892.

The first column shows the rank of the cities and towns in a similar Table for 1891-92, according to their valuation in 1891.

The second column indicates, in numerical order, the precedence of the cities and towns in respect to the liberality of their appropriations for 1892-93, according to their valuation in 1892.

The third consists of the names of the cities and towns, as numerically arranged.

The fourth shows the percentage of taxable property appropriated to the support of the public schools. The result is equivalent in value to mills and hundredths of mills. The decimals are carried to three figures, in order to indicate more perfectly the distinction between the different towns. The first figure (mills) expresses the principal value, and is separated from the last two figures by a dash.

The appropriations for schools are not given in the following Table, as they may be found by referring to the previous Tables; also in the Abstract of School Returns, commencing on page ii. These appropriations include the sum raised by taxes, the income of the surplus revenue, and of such other funds as the towns may appropriate at their option, either to support common schools, or to pay ordinary municipal expenses. The income of other local funds, and the voluntary contributions, are not included in the estimate. The appropriations are reckoned the same as in the first series of Tables, and for the same reasons.

The amount of taxable property, in each city and town, according to the last State valuation, is also omitted, as it is already given in the foregoing Abstract of School Returns.

If the rank assigned to towns in the next Tables is compared with the rank of the same towns in the former series, it will be seen that they hold, in many instances, a very different place in the scale.

GRADUATED TABLES — SECOND SERIES.

[FOR THE STATE.]

A Graduated Table in which all the Towns in the State are numerically arranged according to the Percentage of their Taxable Property appropriated for the Support of Public Schools for the Year 1892-93.

For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mills.	For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mills.
4	1	WEST STOCKBRIDGE.	\$.006-92	25	34	Hinsdale.	\$.005-11
6	2	Hawley.	6-75	8	35	Wellfleet.	5-05
10	3	Sandwich.	6-48	12	36	Lee.	5-04
2	4	Holden.	6-41	16	37	Northbridge.	5-03
26	5	Blandford.	6-05	18	38	Harwich.	5-03
1	6	Florida.	5-93	31	39	W. Boylston.	4-96
9	7	Heath.	5-93	39	40	Weymouth.	4-96
15	8	Wrentham.	5-92	58	41	Avon.	4-96
3	9	Granville.	5-89	27	42	Abington.	4-94
38	10	Groveland.	5-88	45	43	Chatham.	4-89
5	11	Adams.	5-87	23	44	Easthampton.	4-88
11	12	Barnstable.	5-80	49	45	Dighton.	4-86
14	13	Spencer.	5-72	47	46	Warren.	4-84
156	14	Shutesbury.	5-69	44	47	Buckland.	4-83
7	15	Holbrook.	5-67	33	48	Belchertown.	4-80
28	16	Mansfield.	5-61	86	49	Upton.	4-80
79	17	Orange.	5-61	187	50	Williamsburg.	4-80
46	18	Medway.	5-60	36	51	Dedham.	4-78
73	19	Windsor.	5-59	34	52	Clarksburg.	4-76
19	20	Dudley.	5-55	84	53	Rockland.	4-75
13	21	Truro.	5-50	43	54	Colrain.	4-71
29	22	Dennis.	5-50	40	55	N. Brookfield.	4-69
32	23	Brookfield.	5-46	67	56	Millbury.	4-58
56	24	Randolph.	5-46	60	57	Natick.	4-56
264	25	Leyden.	5-39	30	58	North Adams.	4-53
35	26	Merrimac.	5-36	81	59	Sterling.	4-49
51	27	Ashland.	5-32	114	60	Wilmington.	4-48
41	28	Grafton.	5-30	75	61	Franklin.	4-46
87	29	Norwood.	5-22	104	62	Westborough.	4-46
24	30	Rehoboth.	5-21	155	63	Monson.	4-45
20	31	Palmer.	5-15	53	64	Ludlow.	4-43
21	32	South Hadley.	5-15	68	65	Bradford.	4-43
37	33	N. Attleboro'.	5-13	90	66	Berkley.	4-43

For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Val- uation appropriated to Public Schools— equivalent to mills and hundredths of mills.	For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Val- uation appropriated to Public Schools— equivalent to mills and hundredths of mills.
89	67	Westminster,	\$.004-40	159	117	Brockton,	\$.004-03
57	68	Holliston,	4-38	77	118	Needham,	4-02
62	69	Swansea,	4-38	107	119	Ashfield,	4-02
76	70	Peabody,	4-38	161	120	Wayland,	4-02
54	71	New Salem,	4-37	93	121	Stoughton,	3-98
55	72	Foxborough,	4-35	116	122	Leominster,	3-98
63	73	Littleton,	4-35	80	123	Orleans,	3-96
50	74	E. Bridgew'r,	4-34	85	124	Southbridge,	3-96
111	75	Petersham,	4-34	244	125	Chester,	3-96
113	76	W. Newbury,	4-29	109	126	Danvers,	3-95
144	77	Savoy,	4-29	119	127	Woburn,	3-95
174	78	Auburn,	4-28	183	128	Conway,	3-95
98	79	N. Andover,	4-26	143	129	Wareham,	3-94
122	80	Hudson,	4-25	190	130	Tolland,	3-94
64	81	Huntington,	4-24	105	131	Washington,	3-93
92	82	Wakefield,	4-23	94	132	Gloucester,	3-92
66	83	Marlborough,	4-22	112	133	Norwell,	3-92
82	84	Bridgewater,	4-22	148	134	W. Springf'd,	3-91
288	85	Wales,	4-22	184	135	Shelburne,	3-91
196	86	Bellingham,	4-21	201	136	Charlton,	3-91
199	87	Milford,	4-21	118	137	Oxford,	3-90
301	88	Russell,	4-21	121	138	W. Brookf'd,	3-90
65	89	Otis,	4-20	17	139	Georgetown,	3-88
72	90	Westford,	4-20	142	140	Erving,	3-88
61	91	Fairhaven,	4-19	110	141	Hyde Park,	3-87
74	92	Cheshire,	4-19	217	142	Rowe,	3-86
136	93	Phillipston,	4-19	227	143	Melrose,	3-84
96	94	Attleborough,	4-18	135	144	Middlefield,	3-82
128	95	Mashpee,	4-17	179	145	Methuen,	3-81
70	96	Templeton,	4-16	129	146	Uxbridge,	3-80
71	97	Walpole,	4-16	48	147	Eastham,	3-79
78	98	Longmeadow,	4-16	169	148	Salisbury,	3-79
166	99	Essex,	4-16	139	149	Halifax,	3-78
88	100	Provincetown,	4-15	132	150	Taunton,	3-77
100	101	Raynham,	4-14	134	151	Gt. Barrington,	3-76
108	102	Ashburnham,	4-13	22	152	Pelham,	3-73
91	103	Ayer,	4-11	130	153	Montague,	3-71
189	104	Tyringham,	4-11	160	154	Worthington,	3-71
42	105	Sheffield,	4-10	131	155	Pittsfield,	3-70
138	106	Somerset,	4-10	158	156	Sturbridge,	3-70
231	107	Gardner,	4-09	106	157	Westhampton,	3-69
336	108	Monroe,	4-08	115	158	New Braintree,	3-69
59	109	Douglas,	4-06	124	159	Norfolk,	3-69
165	110	Deerfield,	4-06	133	160	Concord,	3-69
117	111	Shrewsbury,	4-05	137	161	Quincy,	3-69
103	112	Sutton,	4-04	146	162	Medford,	3-69
95	113	Granby,	4-03	149	163	Blackstone,	3-66
99	114	Worthington,	4-03	182	164	Barnstable,	3-66
101	115	Stoneham,	4-03	243	165	Rockport,	3-66
147	116	Pepperell,	4-03	177	166	Plymouth,	3-65

SCHOOL RETURNS.

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For 1891-92, by the State Valuation of 1891.		TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mills.	For 1891-92, by the State Valuation of 1891.		TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mills.
For 1892-93, by the State Valuation of 1892.							
216	167	Monterey, .	\$.003-65	126	217	Hanson, .	\$.003-30
193	168	Winchester, .	3-64	176	218	Lakeville, .	3-30
186	169	Agawam, .	3-63	258	219	Northborough, .	3-30
212	170	Wilbraham, .	3-63	287	220	Sudbury, .	3-30
154	171	Barre, .	3-62	172	221	Ashby, .	3-28
228	172	Hanover, .	3-61	195	222	Somerville, .	3-27
123	173	Montgomery, .	3-59	232	223	Cambridge, .	3-27
140	174	Hopkinton, .	3-59	219	224	Chesterfield, .	3-25
164	175	Westport, .	3-59	248	225	Canton, .	3-25
211	176	Everett, .	3-59	226	226	Tyngsboro', .	3-24
233	177	Williamstown, .	3-59	238	227	Gill, .	3-24
125	178	Brewster, .	3-58	250	228	Hubbardston, .	3-24
152	179	Reading, .	3-58	256	229	Royalston, .	3-22
167	180	Rochester, .	3-58	269	230	Wendell, .	3-22
175	181	Southborough, .	3-58	207	231	Chelsea, .	3-21
208	182	Fitchburg, .	3-58	229	232	Salem, .	3-21
194	183	Bolton, .	3-57	272	233	Braintree, .	3-21
97	184	Bourne, .	3-56	213	234	W. Bridgew'r, .	3-20
127	185	Leicester, .	3-55	246	235	Hingham, .	3-20
141	186	Shirley, .	3-55	198	236	Sherborn, .	3-18
157	187	Charlemont, .	3-55	249	237	Whitman, .	3-18
178	188	Malden, .	3-54	218	238	Tewksbury, .	3-16
181	189	Norton, .	3-54	273	239	Lexington, .	3-16
192	190	Ware, .	3-54	253	240	Fall River, .	3-14
224	191	Haverhill, .	3-52	223	241	Billerica, .	3-13
52	192	Richmond, .	3-51	241	242	Millis, .	3-13
171	193	Lanesborough, .	3-51	254	243	Lynn, .	3-12
239	194	Hadley, .	3-51	242	244	Southwick, .	3-11
180	195	Arlington, .	3-47	304	245	Princeton, .	3-11
162	196	Northfield, .	3-46	163	246	Saugus, .	3-10
168	197	Rutland, .	3-45	240	247	Townsend, .	3-10
185	198	Westfield, .	3-45	255	248	Chicopee, .	3-10
221	199	Rowley, .	3-45	200	249	Waltham, .	3-09
151	200	Becket, .	3-44	202	250	Marblehead, .	3-08
191	201	Clinton, .	3-44	247	251	Plainfield, .	3-08
69	202	N. Reading, .	3-43	266	252	Amesbury, .	3-08
210	203	Chelmsford, .	3-43	334	253	Greenwich, .	3-08
173	204	Athol, .	3-41	120	254	Kingston, .	3-06
235	205	Revere, .	3-41	188	255	Enfield, .	3-05
197	206	Brimfield, .	3-40	234	256	Acton, .	3-05
230	207	Middleboro', .	3-39	252	257	Lowell, .	3-05
222	208	Mendon, .	3-38	261	258	Hardwick, .	3-03
145	209	Andover, .	3-37	262	259	Maynard, .	3-03
150	210	Ipswich, .	3-37	263	260	Middleton, .	3-02
236	211	Worcester, .	3-36	203	261	Sandisfield, .	3-01
204	212	Framingham, .	3-35	209	262	Holyoke, .	3-00
268	213	Acushnet, .	3-33	-	263	West Tisbury, .	3-00
245	214	Dalton, .	3-32	102	264	N. Marlboro', .	2-99
206	215	Boxborough, .	3-31	220	265	Pembroke, .	2-98
214	216	Hampden, .	3-31	296	266	Plympton, .	2-98

For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mills.	For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mills.
153	267	Sunderland, .	\$.002-97	315	310	Newburyport, .	\$.002-38
215	268	Southampton, .	2-96	319	311	Belmont, .	2-32
276	269	Dana, .	2-96	324	312	Hancock, .	2-32
282	270	Harvard, .	2-94	311	313	Berlin, .	2-31
287	271	Boylston, .	2-93	307	314	Egremont, .	2-30
259	272	Whately, .	2-93	317	315	Stockbridge, .	2-27
299	273	Sharon, .	2-93	289	316	Edgartown, .	2-26
297	274	Oakham, .	2-92	308	317	Holland, .	2-25
225	275	Hopedale, .	2-91	316	318	Dunstable, .	2-23
285	276	New Bedford, .	2-91	260	319	Dartmouth, .	2-22
251	277	Newton, .	2-90	312	320	Hatfield, .	2-22
270	278	Warwick, .	2-89	306	321	Tisbury, .	2-21
313	279	Amherst, .	2-88	323	322	Cohasset, .	2-21
205	280	Webster, .	2-84	318	323	Lancaster, .	2-19
279	281	Greenfield, .	2-83	265	324	Peru, .	2-15
284	282	Easton, .	2-83	328	325	Topsfield, .	2-07
325	283	Dracut, .	2-81	320	326	Groton, .	2-03
170	284	Dover, .	2-80	329	327	Lenox, .	1-96
281	285	Watertown, .	2-79	321	328	Wellesley, .	1-90
305	286	Boxford, .	2-77	322	329	Hamilton, .	1-89
341	287	Paxton, .	2-76	347	330	Cummington, .	1-88
277	288	Lawrence, .	2-75	332	331	Winthrop, .	1-87
280	289	Leverett, .	2-73	338	332	Boston, .	1-86
290	290	Wenham, .	2-71	326	333	Swampscott, .	1-85
283	291	Lunenburg, .	2-70	314	334	Stow, .	1-83
278	292	Springfield, .	2-67	327	335	Nantucket, .	1-83
295	293	Duxbury, .	2-64	331	336	Prescott, .	1-80
298	294	Winchendon, .	2-64	335	337	Beverly, .	1-65
275	295	Scituate, .	2-63	340	338	Brookline, .	1-64
83	296	Gay Head, .	2-61	303	339	Marion, .	1-62
294	297	Burlington, .	2-60	333	340	Chilmark, .	1-59
292	298	Carver, .	2-58	339	341	Alford, .	1-55
291	299	Carlisle, .	2-57	337	342	Falmouth, .	1-53
286	300	Newbury, .	2-56	344	343	Milton, .	1-53
274	301	Seekonk, .	2-55	342	344	Mattapoisett, .	1-42
302	302	Goshen, .	2-55	345	345	Lincoln, .	1-36
257	303	Medfield, .	2-54	343	346	Cottage City, .	1-35
267	304	Bedford, .	2-53	309	347	New Ashford, .	1-23
293	305	Marshfield, .	2-52	346	348	Mt. Wash'ton, .	1-07
300	306	Freetown, .	2-46	348	349	Hull, .	0-94
271	307	Weston, .	2-45	349	350	Nahant, .	0-85
330	308	Lynnfield, .	2-43	350	351	Manchester, .	0-69
310	309	Yarmouth, .	2-42	351	352	Gosnold, .	0-44

GRADUATED TABLES—SECOND SERIES.

[COUNTY TABLES.]

In which all the Towns in the respective Counties in the State are numerically arranged according to the Percentage of their Taxable Property appropriated for the Support of Public Schools for the Year 1892-93.

BARNSTABLE COUNTY.

For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Val- uation appropriated to Public Schools— equivalent to mills and hundredths of mills.	For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Val- uation appropriated to Public Schools— equivalent to mills and hundredths of mills.
2	1	SANDWICH, .	\$.006-48	8	9	Orleans, .	\$.003-96
3	2	Truro, .	5-50	7	10	Eastham, .	3-79
5	3	Dennis, .	5-50	13	11	Barnstable, .	3-66
1	4	Wellfleet, .	5-05	11	12	Brewster, .	3-58
4	5	Harwich, .	5-03	10	13	Bourne, .	3-56
6	6	Chatham, .	4-89	14	14	Yarmouth, .	2-42
12	7	Mashpee, .	4-17	15	15	Falmouth, .	1-53
9	8	Provincetown,	4-15				

BERKSHIRE COUNTY.

2	1	WEST STOCKBRIDGE, .	\$.006-92	22	17	Monterey, .	\$.003-65
1	2	Florida, .	5-93	18	18	Williamstown, .	3-59
3	3	Adams, .	5-87	9	19	Richmond, .	3-51
11	4	Windsor, .	5-59	19	20	Lanesborough, .	3-51
5	5	Hinsdale, .	5-11	18	21	Becket, .	3-44
4	6	Lee, .	5-04	24	22	Dalton, .	3-32
7	7	Clarksburg, .	4-76	21	23	Sandisfield, .	3-01
6	8	North Adams, .	4-53	13	24	N. Marlboro', .	2-99
17	9	Savoy, .	4-29	29	25	Hancock, .	2-32
10	10	Otis, .	4-20	26	26	Egremont, .	2-30
12	11	Cheshire, .	4-19	28	27	Stockbridge, .	2-27
20	12	Tyringham, .	4-11	25	28	Peru, .	2-15
8	13	Sheffield, .	4-10	30	29	Lenox, .	1-96
14	14	Washington, .	3-93	31	30	Alford, .	1-55
16	15	Gt. Barringt'n, .	3-76	27	31	New Ashford, .	1-23
15	16	Pittsfield, .	3-70	32	32	Mt. Wash'ton, .	1-07

BRISTOL COUNTY.

For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mills.	For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mills.
2	1	MAASFIELD, .	\$.005-61	10	11	Taunton, .	\$.003-77
1	2	Rehoboth, .	5-21	12	12	Westport, .	3-59
3	3	N. Attleboro', .	5-13	13	13	Norton, .	3-54
4	4	Dighton, .	4-86	16	14	Acushnet, .	3-33
7	5	Berkley, .	4-43	14	15	Fall River, .	3-14
6	6	Swansea, .	4-38	19	16	New Bedford, .	2-91
5	7	Fairhaven, .	4-19	18	17	Easton, .	2-83
8	8	Attleborough, .	4-18	17	18	Seekonk, .	2-55
9	9	Raynham, .	4-14	20	19	Freetown, .	2-46
11	10	Somerset, .	4-10	15	20	Dartmouth, .	2-22

DUKES COUNTY.

-	1	WEST TISBURY, .	\$.003-00	4	5	Chilmark, .	\$.001-59
1	2	Gay Head, .	2-61	5	6	Cottage City, .	1-35
2	3	Edgartown, .	2-26	6	7	Gosnold, .	0-44
3	4	Tisbury, .	2-21				

ESSEX COUNTY.

3	1	GROVELAND, .	\$.005-88	21	19	Lynn, .	\$.003-12
2	2	Merrimac, .	5-36	12	20	Saugus, .	3-10
4	3	Bradford, .	4-43	16	21	Marblehead, .	3-08
5	4	Peabody, .	4-38	23	22	Amesbury, .	3-08
9	5	W Newbury, .	4-29	22	23	Middleton, .	3-02
7	6	N. Andover, .	4-26	27	24	Boxford, .	2-77
13	7	Essex, .	4-16	24	25	Lawrence, .	2-75
8	8	Danvers, .	3-95	26	26	Wenham, .	2-71
6	9	Gloucester, .	3-92	25	27	Newbury, .	2-56
1	10	Georgetown, .	3-88	32	28	Lynnfield, .	2-43
15	11	Methuen, .	3-81	28	29	Newburyport, .	2-38
14	12	Salisbury, .	3-79	31	30	Topsfield, .	2-07
20	13	Rockport, .	3-66	29	31	Hamilton, .	1-89
18	14	Haverhill, .	3-52	30	32	Swampscott, .	1-85
17	15	Rowley, .	3-45	33	33	Beverly, .	1-65
10	16	Andover, .	3-37	34	34	Nahant, .	0-85
11	17	Ipswich, .	3-37	35	35	Manchester, .	0-69
19	18	Salem, .	3-21				

SCHOOL RETURNS.

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FRANKLIN COUNTY.

For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mill.	For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mill.
1	1	HAWLEY, . . .	\$.006-75	17	14	Shelburne, . .	\$.003-91
2	2	Heath, . . .	5-93	10	15	Erving, . . .	3-88
3	3	Bernardston, .	5-80	18	16	Rowe, . . .	3-86
12	4	Shutesbury, .	5-69	9	17	Montague, . .	3-71
7	5	Orange, . . .	5-61	13	18	Charlemont, .	3-55
21	6	Leyden, . . .	5-39	14	19	Northfield, .	3-46
5	7	Buckland, . .	4-88	19	20	Gill, . . .	3-24
4	8	Colrain, . . .	4-71	22	21	Wendell, . . .	3-22
6	9	New Salem, .	4-37	11	22	Sunderland, .	2-97
26	10	Mouroe, . . .	4-08	20	23	Whately, . . .	2-93
15	11	Deerfield, . .	4-06	23	24	Warwick, . . .	2-89
8	12	Ashfield, . . .	4-02	24	25	Greenfield, . .	2-83
16	13	Conway, . . .	3-95	25	26	Leverett, . . .	2-73

HAMPDEN COUNTY.

3	1	BLANDFORD, . .	\$.006-05	10	12	Agawam, . . .	\$.003-63
1	2	Granville, . .	5-89	14	13	Wilbraham, . .	3-63
2	3	Palmer, . . .	5-15	6	14	Montgomery, .	3-59
8	4	Monson, . . .	4-45	9	15	Westfield, . .	3-45
4	5	Ludlow, . . .	4-43	12	16	Brimfield, . .	3-40
20	6	Wales, . . .	4-22	15	17	Hampden, . . .	3-31
21	7	Russell, . . .	4-21	16	18	Southwick, . .	3-11
5	8	Longmeadow, .	4-16	18	19	Chicopee, . . .	3-10
17	9	Chester, . . .	3-96	13	20	Holyoke, . . .	3-00
11	10	Tolland, . . .	3-94	19	21	Springfield, .	2-67
7	11	W. Springfield,	3-91	22	22	Holland, . . .	2-25

HAMPSHIRE COUNTY.

1	1	SOUTH HADLEY, .	\$.005-15	16	13	Hadley, . . .	\$.003-51
3	2	Easthampton, .	4-88	15	14	Chesterfield, .	3-25
4	3	Belchertown, .	4-80	17	15	Plainfield, . .	3-08
11	4	Williamsburg, .	4-80	22	16	Greenwich, . .	3-08
5	5	Huntington, . .	4-24	12	17	Enfield, . . .	3-05
6	6	Granby, . . .	4-03	14	18	Southampton, .	2-96
7	7	Worthington, .	4-03	20	19	Amherst, . . .	2-88
9	8	Middlefield, . .	3-82	18	20	Goshen, . . .	2-55
2	9	Pelham, . . .	3-73	19	21	Hatfield, . . .	2-22
10	10	Northampton, .	3-71	23	22	Cummington, .	1-88
8	11	Westhampton, .	3-69	21	23	Prescott, . . .	1-80
13	12	Ware, . . .	3-54				

MIDDLESEX COUNTY.

For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Val- uation appropriated to Public Schools— equivalent to mills and hundredths of mills.	For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Val- uation appropriated to Public Schools— equivalent to mills and hundredths of mills.
1	1	ASHLAND, . .	\$.005-32	29	28	Boxborough, .	\$.003-31
3	2	Natick, . .	4-56	46	29	Sudbury, .	3-30
11	3	Wilmington, .	4-48	21	30	Ashby, .	3-28
2	4	Holliston, .	4-38	25	31	Somerville, .	3-27
4	5	Littleton, .	4-35	36	32	Cambridge, .	3-27
13	6	Hudson, .	4-25	34	33	Tyngsboro', .	3-24
9	7	Wakefield, .	4-23	26	34	Sherborn, .	3-18
5	8	Marlborough, .	4-22	32	35	Tewksbury, .	3-16
7	9	Westford, .	4-20	44	36	Lexington, .	3-16
8	10	Ayer, .	4-11	33	37	Billerica, .	3-13
10	11	Stoneham, .	4-03	38	38	Townsend, .	3-10
18	12	Pepperell, .	4-03	27	39	Waltham, .	3-09
20	13	Wayland, .	4-02	37	40	Acton, .	3-05
12	14	Woburn, .	3-95	40	41	Lowell, .	3-05
35	15	Melrose, .	3-84	41	42	Maynard, .	3-03
14	16	Concord, .	3-69	39	43	Newton, .	2-90
17	17	Medford, .	3-69	53	44	Dracut, .	2-81
24	18	Winchester, .	3-64	45	45	Watertown, .	2-79
15	19	Hopkinton, .	3-59	48	46	Burlington, .	2-60
31	20	Everett, .	3-59	47	47	Carlisle, .	2-57
19	21	Reading, .	3-58	42	48	Bedford, .	2-53
16	22	Shirley, .	3-55	43	49	Weston, .	2-45
22	23	Malden, .	3-54	51	50	Belmont, .	2-32
23	24	Arlington, .	3-47	50	51	Dunstable, .	2-23
6	25	N. Reading, .	3-43	52	52	Groton, .	2-03
30	26	Chelmsford, .	3-43	49	53	Stow, .	1-83
28	27	Framingham, .	3-35	54	54	Lincoln, .	1-36

NANTUCKET COUNTY.

		NANTUCKET,	\$.001-83
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NORFOLK COUNTY.

2	1	WRENTHAM, .	\$.005-92	10	9	Franklin, .	\$.004-46
1	2	Holbrook, .	5-67	6	10	Foxborough, .	4-35
5	3	Medway, .	5-60	18	11	Bellingham, .	4-21
7	4	Randolph, .	5-46	9	12	Walpole, .	4-16
12	5	Norwood, .	5-22	11	13	Needham, .	4-02
4	6	Weymouth, .	4-96	13	14	Stoughton, .	3-98
8	7	Avon, .	4-96	14	15	Hyde Park, .	3-87
3	8	Dedham, .	4-78	15	16	Norfolk, .	3-69

SCHOOL RETURNS.

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NORFOLK COUNTY — CONCLUDED.

For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Val- uation appropriated to Public Schools— equivalent to mil- lis and hundredths of mills.	For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	TOWNS.	Percentage of Val- uation appropriated to Public Schools— equivalent to mil- lis and hundredths of mills.
16	17	Quincy, .	\$.003-69	21	23	Medfield, .	\$.002-54
20	18	Canton, .	3-25	25	24	Cohasset, .	2-21
22	19	Braintree, .	3-21	24	25	Wellesley, .	1-90
19	20	Millis, .	3-13	26	26	Brookline, .	1-64
23	21	Sharon, .	2-93	27	27	Milton, .	1-53
17	22	Dover, .	2-80				

PLYMOUTH COUNTY.

1	1	ABINGTON, .	\$.004-94	14	15	W. Bridgew'r, .	\$.003-20
4	2	Rockland, .	4-75	18	16	Hingham, .	3-20
2	3	E. Bridgew'r, .	4-34	19	17	Whitman, .	3-18
3	4	Bridgewater, .	4-22	6	18	Kingston, .	3-06
10	5	Brockton, .	4-03	15	19	Pembroke, .	2-98
9	6	Wareham, .	3-94	24	20	Plympton, .	2-98
5	7	Norwell, .	3-92	23	21	Duxbury, .	2-64
8	8	Halifax, .	3-78	20	22	Scituate, .	2-63
13	9	Plymouth, .	3-65	21	23	Carver, .	2-58
16	10	Hanover, .	3-61	22	24	Marshfield, .	2-52
11	11	Rochester, .	3-58	25	25	Marion, .	1-62
17	12	Middleboro', .	3-39	26	26	Mattapoisett, .	1-42
7	13	Hanson, .	3-30	27	27	Hull, .	0-94
12	14	Lakeville, .	3-30				

SUFFOLK COUNTY.

2	1	REVERE, .	\$.003-41	3	3	Winthrop, .	\$.001-87
1	2	Chelsea, .	3-21	4	4	Boston, .	1-86

WORCESTER COUNTY.

1	1	HOLDEN, .	\$.006-41	11	11	Millbury, .	\$.004-58
2	2	Spencer, .	5-72	13	12	Sterling, .	4-49
4	3	Dudley, .	5-55	18	13	Westborough, .	4-46
6	4	Brookfield, .	5-46	16	14	Westminster, .	4-40
8	5	Grafton, .	5-30	20	15	Petersham, .	4-34
3	6	Northbridge, .	5-03	34	16	Auburn, .	4-28
5	7	W. Boylston, .	4-96	38	17	Milford, .	4-21
9	8	Warren, .	4-84	28	18	Phillipston, .	4-19
15	9	Upton, .	4-80	12	19	Templeton, .	4-16
7	10	N. Brookfield, .	4-69	19	20	Ashburnham, .	4-13

BOARD OF EDUCATION.

WORCESTER COUNTY — CONCLUDED.

For 1891-'92, by the State Valuation of 1891.		TOWNS.	Percentage of Val- ation appropriated to Public Schools— equivalent to mills and hundredths of mills.	For 1891-'92, by the State Valuation of 1891.		TOWNS.	Percentage of Val- ation appropriated to Public Schools— equivalent to mills and hundredths of mills.
For 1892-'93, by the State Valuation of 1892.				For 1892-'93, by the State Valuation of 1892.			
44	21	Gardner, .	\$.004-09	33	41	Athol, .	\$.003-41
10	22	Douglas, .	4-06	42	42	Mendon, .	3-38
23	23	Shrewsbury, .	4-05	45	43	Worcester, .	3-36
17	24	Sutton, .	4-04	49	44	Northborough	3-30
22	25	Leominster, .	3-98	47	45	Hubbardston,	3-24
14	26	Southbridge, .	3-96	48	46	Royalston, .	3-22
39	27	Charlton, .	3-91	56	47	Princeton, .	3-11
24	28	Oxford, .	3-90	50	48	Hardwick, .	3-03
25	29	W. Brookfield,	3-90	51	49	Dana, .	2-96
27	30	Uxbridge, .	3-80	52	50	Harvard, .	2-94
31	31	Sturbridge, .	3-70	46	51	Boylston, .	2-93
21	32	N. Braintree, .	3-69	54	52	Oakham, .	2-92
29	33	Blackstone, .	3-66	43	53	Hopedale, .	2-91
30	34	Barre, .	3-62	40	54	Webster, .	2-84
35	35	Southborough,	3-58	59	55	Paxton, .	2-76
41	36	Fitchburg, .	3-58	53	56	Lunenburg, .	2-70
37	37	Bolton, .	3-57	55	57	Winchendon, .	2-64
26	38	Leicester, .	3-55	57	58	Berlin, .	2-31
32	39	Rutland, .	3-45	58	59	Lancaster, .	2-19
36	40	Clinton, .	3-44				

GRADUATED TABLES — SECOND SERIES.

Showing the different Counties in the State, numerically arranged, according to the Percentage of their Taxable Property appropriated for the Support of Public Schools for the Year 1892-93.

For 1891-92, by the State Valuation of 1891.	For 1892-93, by the State Valuation of 1892.	COUNTIES.	Percentage of Valuation appropriated to Public Schools—equivalent to mills and hundredths of mills.	Amount of money raised by taxes for the support of Public Schools.	Income of Surplus Revenue and other funds, including the dog tax, used at the option of the town.	TOTALS.	Valuation of 1892.	Amount contributed for board and fuel.
3	1	FRANKLIN,	\$. 003-87	\$78,371 32	\$1,513 63	\$79,884 95	\$20,637,911	\$131 00
1	2	Berkshire,	3-86	175,378 49	1,892 13	177,270 62	45,846,855	100 00
2	3	Hampshire,	3-74	105,964 83	2,750 67	108,715 50	29,038,016	20 00
5	4	Worcester,	3-68	700,534 53	6,474 98	707,009 51	191,955,290	264 20
6	5	Plymouth,	3-51	223,669 90	5,620 65	229,290 55	65,169,898	215 00
4	6	Barnstable,	3-50	69,697 26	2,422 77	72,120 03	20,598,614	180 00
7	7	Middlesex,	3-30	1,312,861 00	6,152 11	1,319,013 11	399,237,733	98 00
8	8	Bristol,	3-30	459,193 40	8,680 10	467,873 50	141,618,234	368 15
9	9	Hampden,	3-06	320,194 44	2,803 17	322,997 61	106,309,716	672 50
10	10	Essex,	3-03	700,449 53	6,987 56	707,437 09	233,398,097	44 00
11	11	Norfolk,	2-84	414,123 62	6,563 88	420,687 50	147,912,664	695 00
14	12	Suffolk,	1-91	1,709,752 08	58,565 08	1,768,317 16	925,491,174	-
13	13	Nantucket,	1-83	5,211 51	311 00	5,522 51	3,009,406	-
12	14	Dukes,	1-82	6,739 29	218 12	6,957 41	3,811,482	-
AGGREGATE FOR THE STATE.								
STATE,			\$. 002-74	\$6,282,141 20	\$110,905 85	\$6,393,047 05	\$2,333,025,090	\$2,737 85

GRADUATED TABLES—SECOND SERIES.

Showing the Arrangement of Counties according to their Appropriations, including Voluntary Contributions.

For 1891-92, by the State Val- uation of 1891.	For 1892-93, by the State Val- uation of 1892.	COUNTIES.	Percentage of Val- uation appropriated to Public Schools— equivalent to mills and hundredths of mills.
3	1	FRANKLIN,	\$.003-87
1	2	Berkshire,	3-86
2	3	Hampshire,	3-74
5	4	Worcester,	3-68
6	5	Plymouth,	3-52
4	6	Barnstable,	3-50
7	7	Middlesex,	3-30
8	8	Bristol,	3-30
9	9	Hampden,	3-07
10	10	Essex,	3-03
11	11	Norfolk,	2-84
14	12	Suffolk,	1-91
13	13	Nantucket,	1-83
12	14	Dukes,	1-82
STATE,			\$.002-74

GRADUATED TABLES — THIRD SERIES.

The following Table exhibits the ratio of the average attendance for the year in each town to the whole number of children between 5 and 15 according to the returns.

The ratio is expressed in decimals, continued to four figures, the first two of which are separated from the last two by a point, as only the two former are essential to denote the real per cent. Yet the ratios of many towns are so nearly equal, or the difference is so small a fraction, that the first two decimals with the appropriate mathematical sign appended indicate no distinction. The continuation of the decimals, therefore, is simply to indicate a priority in cases where, without such continuation, the ratios would appear to be precisely similar.

In several cases the ratio of attendance exhibited in the Table is over 100 per cent. These results, supposing the registers to have been properly kept and the returns correctly made, are to be thus explained: The average attendance upon all Public Schools being compared with the whole number of children in the town between 5 and 15, the result may be over 100 per cent., because the attendance of children under 5 and over 15 may more than compensate for the absence of children between those ages. The rank of the towns standing highest in the following Table is in accordance with the returns. As the returns are often incorrect, the rank may be too high in some cases.

GRADUATED TABLES—THIRD SERIES.

[FOR THE STATE.]

In which all the Towns in the State are numerically arranged according to the AVERAGE ATTENDANCE of the Children upon the Public Schools for the Year 1892-93.

TOWNS.				TOWNS.					
		No. of children between 5 and 15 years of age in each town.	Average attendance upon School.			No. of children between 5 and 15 years of age in each town.	Average attendance upon School.		
			Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimata.				Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimata.		
1	ASHFIELD, .	106	133	1.25-47	33	Marshfield, .	213	209	.98-12
2	Weston, .	174	205	1.17-81	34	Townsend, .	244	239	.97-95
3	Ashby, .	114	133	1.16-66	35	Savoy, .	85	83	.97-64
4	Oakham, .	85	99	1.16-47	36	Barnstable, .	588	574	.97-61
5	Middlefield, .	65	70	1.07-69	37	Gloucester, .	3,637	3,550	.97-60
6	Natick, .	1,416	1,525	1.07-69	38	Weymouth, .	1,746	1,702	.97-47
7	Essex, .	223	237	1.06-27	39	Easthampton, .	685	667	.97-37
8	Nahant, .	97	103	1.06-18	40	Chilmark, .	32	31	.96-87
9	Sunderland, .	88	93	1.05-68	41	Northboro', .	310	298	.96-12
10	Mendon, .	129	135	1.04-65	42	Randolph, .	580	556	.95-86
11	Melrose, .	1,546	1,610	1.04-13	43	Sudbury, .	186	178	.95-69
12	Hubbardston, .	169	175	1.03-55	44	Warwick, .	91	87	.95-60
13	Leominster, .	1,039	1,052	1.01-25	45	Shrewsbury, .	246	235	.95-52
14	Upton, .	257	260	1.01-16	46	Reading, .	666	636	.95-49
15	Manchester, .	201	203	1.00-99	47	Groton, .	330	314	.95-15
16	Needham, .	476	480	1.00-84	48	Framingham	1,665	1,582	.95-01
17	Sharon, .	205	206	1.00-48	49	Peru, .	37	35	.94-59
18	Princeton, .	131	131	1.00-00	50	Tolland, .	55	52	.94-54
19	Rutland, .	147	147	1.00-00	51	Belmont, .	400	377	.94-25
20	Dana, .	90	90	1.00-00	52	Marblehead, .	1,116	1,050	.94-08
21	Gosnold, .	9	9	1.00-00	53	Gt. Barr'gt'n, .	661	621	.93-94
22	Lexington, .	432	430	.99-53	54	Bernardston, .	97	91	.93-81
23	Hingham, .	587	584	.99-48	55	Bridgewater, .	487	455	.93-42
24	Plymouth, .	1,382	1,374	.99-42	56	Peabody, .	1,772	1,655	.93-39
25	Ayer, .	414	410	.99-03	57	Wayland, .	332	310	.93-37
26	Medford, .	1,949	1,929	.98-97	58	Provinceto'n, .	818	763	.93-27
27	Rockland, .	838	829	.98-92	59	Blandford, .	145	135	.93-10
28	Merrimac, .	425	420	.98-82	60	Chatham, .	275	256	.93-09
29	Kingston, .	250	247	.98-80	61	Bourne, .	237	220	.92-82
30	Walpole, .	382	377	.98-69	62	E. Bridgew'r, .	443	410	.92-55
31	Royalston, .	137	135	.98-54	63	Concord, .	643	595	.92-53
32	Littleton, .	164	161	.98-17	64	Ashburnham, .	371	343	.92-45

SCHOOL RETURNS.

CXXV

TOWNS.	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.	TOWNS.	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.
65 Orange, .	837	773	.92-35	113 Lincoln, .	142	125	.88-02
66 Greenfield, .	938	866	.92-32	114 Winchendon, .	769	676	.87-90
67 Boxborough, .	52	48	.92-30	115 Dennis, .	436	383	.87-84
68 Brimfield, .	153	141	.92-15	116 Leicester, .	555	487	.87-74
69 Acton, .	264	243	.92-04	117 Milford, .	1,293	1,132	.87-54
70 Holbrook, .	427	393	.92-03	118 Greenwich, .	64	56	.87-50
71 Uxbridge, .	540	497	.92-08	119 Williamst'n, .	669	585	.87-44
72 Becket, .	136	125	.91-91	120 Winthrop, .	445	389	.87-41
73 Somerville, .	7,191	6,608	.91-88	121 Erving, .	165	144	.87-27
74 Hopedale, .	194	178	.91-75	122 Deerfield, .	424	370	.87-26
75 Hudson, .	801	734	.91-63	123 Gardner, .	1,401	1,219	.87-00
76 Enfield, .	179	164	.91-62	124 Dalton, .	504	437	.86-70
77 W. Springf'd, .	963	882	.91-58	125 Foxborough, .	461	399	.86-55
78 Tewksbury, .	306	280	.91-50	126 Gill, .	111	96	.86-48
79 Stoneham, .	919	835	.90-85	127 Heath, .	106	91	.85-84
80 Amherst, .	574	521	.90-76	128 Everett, .	2,541	2,180	.85-79
81 Hopkinton, .	628	570	.90-76	129 Athol, .	948	812	.85-65
82 N. Attleboro', .	1,183	1,072	.90-61	130 Whately, .	104	89	.85-57
83 W. Boylston, .	494	446	.90-28	131 Danvers, .	1,183	1,012	.85-54
84 Duxbury, .	276	249	.90-21	132 Richmond, .	152	130	.85-52
85 Westford, .	355	320	.90-14	133 Truro, .	158	135	.85-44
86 Carver, .	147	132	.89-79	134 Belchertown, .	375	320	.85-33
87 South Hadley, .	696	624	.89-65	135 Whitman, .	838	714	.85-20
88 Monson, .	536	480	.89-55	136 Hadley, .	322	274	.85-09
89 Holden, .	473	423	.89-42	137 Norwood, .	764	650	.85-07
90 Bradford, .	652	583	.89-41	138 Rockport, .	676	574	.84-91
91 Southwick, .	141	126	.89-36	139 Wrentham, .	453	384	.84-76
92 Westboro', .	686	613	.89-35	140 Dighton, .	260	220	.84-61
93 Tyngsboro', .	74	66	.89-18	141 N. Andover, .	675	571	.84-59
94 Norfolk, .	157	140	.89-17	142 Norwell, .	213	180	.84-50
95 Maynard, .	514	458	.89-10	143 Bedford, .	153	129	.84-31
96 Dedham, .	1,177	1,048	.89-03	144 Medway, .	527	444	.84-25
97 Montague, .	1,148	1,022	.89-02	145 Sandwich, .	221	186	.84-16
98 Abington, .	702	624	.88-88	146 Attleborough, .	1,272	1,070	.84-11
99 Shutesbury, .	80	71	.88-75	147 Tisbury, .	119	100	.84-03
100 Hinsdale, .	292	259	.88-69	148 Mansfield, .	634	532	.83-91
101 Cohasset, .	380	337	.88-68	149 Florida, .	80	67	.83-75
102 Falmouth, .	378	335	.88-62	150 Hanover, .	305	255	.83-60
103 Easton, .	779	690	.88-57	151 Harvard, .	140	117	.83-57
104 Saugus, .	687	608	.88-50	152 Milton, .	749	626	.83-57
105 Wellfleet, .	164	145	.88-41	153 Dover, .	96	80	.83-33
106 Stow, .	137	121	.88-32	154 Conway, .	245	204	.83-26
107 Brewster, .	137	121	.88-32	155 Westminster, .	262	218	.83-20
108 Ashland, .	402	355	.88-30	156 Hawley, .	83	69	.83-13
109 Montgomery, .	34	30	.88-23	157 Lynn, .	8,869	7,355	.82-92
110 Georgetown, .	357	315	.88-23	158 Brockton, .	4,788	3,968	.82-87
111 Arlington, .	943	832	.88-22	159 Hanson, .	174	144	.82-75
112 Northbridge, .	806	711	.88-21	160 Fairhaven, .	443	366	.82-61

TOWNS.		No. of children between 5 and 10 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.	TOWNS.		No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.
161	Bolton, .	131	108	.82-44	209	Grafton, .	936	739	.78-95
162	Medfield, .	204	168	.82-35	210	W. Newbury, .	268	211	.78-73
163	Braintree, .	832	684	.82-21	211	Pittsfield, .	3,561	2,802	.78-68
164	Stockbridge, .	364	299	.82-14	212	Dunstable, .	61	48	.78-68
165	Yarmouth, .	251	206	.82-07	213	Winchester, .	984	774	.78-65
166	Beverly, .	1,782	1,462	.82-04	214	Burlington, .	103	81	.78-64
167	W. Stockb'ge, .	323	265	.82-04	215	Agawam, .	493	386	.78-29
168	Orleans, .	150	131	.81-87	216	Bellingham, .	230	180	.78-26
169	W. Brookfi'd, .	236	193	.81-77	217	Marlboro', .	2,480	1,937	.78-10
170	Chelmsford, .	475	388	.81-68	218	Petersham, .	148	115	.77-70
171	Brookline, .	2,156	1,761	.81-67	219	Malden, .	4,205	3,264	.77-62
172	Chesterfield, .	98	80	.81-63	220	Blackstone, .	915	710	.77-59
173	Sterling, .	184	150	.81-52	221	Boylston, .	116	90	.77-58
174	Millbury, .	911	741	.81-33	222	Edgartown, .	145	112	.77-24
175	Brookfield, .	528	429	.81-25	223	Southamp'on, .	175	135	.77-14
176	N. Marlboro', .	186	151	.81-18	224	Pembroke, .	192	148	.77-08
177	Lynnfield, .	95	77	.81-05	225	W. Tisbury, .	61	47	.77-04
178	Paxton, .	58	47	.81-03	226	Phillipston, .	78	60	.76-92
179	Freetown, .	184	149	.80-97	227	Methuen, .	934	718	.76-87
180	Gay Head, .	21	17	.80-95	228	New Salem, .	129	99	.76-74
181	Templeton, .	546	442	.80-95	229	Wilbraham, .	249	191	.76-70
182	Westfield, .	1,703	1,377	.80-85	230	Leyden, .	60	46	.76-66
183	Granby, .	120	97	.80-83	231	Sturbridge, .	377	289	.76-65
184	Wareham, .	495	400	.80-80	232	Norton, .	222	170	.76-57
185	Berlin, .	130	105	.80-76	233	Avon, .	264	202	.76-51
186	Cummington, .	150	121	.80-66	234	Mattapoisett, .	166	127	.76-50
187	Harwich, .	408	329	.80-63	235	Hancock, .	93	71	.76-34
188	Wilmington, .	222	179	.80-63	236	Rowley, .	190	145	.76-31
189	Charlmont, .	179	144	.80-44	237	Adams, .	1,725	1,316	.76-28
190	Warren, .	924	742	.80-30	238	Holliston, .	464	353	.76-07
191	Leverett, .	132	106	.80-30	239	Lenox, .	488	371	.76-02
192	Sheffield, .	279	224	.80-28	240	Plainfield, .	79	60	.75-94
193	N. Reading, .	152	122	.80-26	241	Berkley, .	151	114	.75-49
194	Lunenburg, .	191	153	.80-10	242	Boston, .	73176	55203	.75-43
195	Huntington, .	271	217	.80-07	243	Dartmouth, .	478	360	.75-31
196	Rowe, .	75	60	.80-00	244	W. Bridgew'r, .	279	210	.75-26
197	Cambridge, .	12451	9,959	.79-98	245	Buckland, .	282	212	.75-17
198	Barre, .	379	303	.79-94	246	Wellesley, .	520	390	.75 00
199	Andover, .	1,011	808	.79-92	247	Topsfield, .	160	120	.75-00
200	Cheshire, .	221	176	.79-63	248	Halifax, .	87	65	.74-71
201	Somerset, .	328	261	.79-57	249	Pepperell, .	601	448	.74-54
202	Newton, .	4,570	3,628	.79-38	250	Wakefield, .	1,580	1,175	.74-36
203	Colrain, .	310	246	.79-35	251	Monroe, .	39	29	.74-35
204	Pelham, .	92	73	.79-34	252	Worcester, .	15790	11727	.74-26
205	Prescott, .	48	38	.79-16	253	Otis, .	93	69	.74-19
206	Middleboro', .	927	734	.79-15	254	Williamsb'g, .	443	328	.74-04
207	Granville, .	177	140	.79-09	255	Scituate, .	437	323	.73-91
208	Eastham, .	62	49	.79-03	256	Alford, .	42	31	.73-80

SCHOOL RETURNS.

cxxxviii

TOWNS.				TOWNS.			
	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.		No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.
257	Hull, . . .	103	76 .73-78	305	Salem, . . .	5,120	3,400 .66-40
258	Quincy, . . .	4,377	3,228 .73-74	306	Waltham, . . .	2,982	1,975 .66-23
259	Westport, . . .	399	294 .73-68	307	Russell, . . .	189	125 .66-13
260	Hamilton, . . .	148	109 .73-64	308	Wales, . . .	144	95 .65-97
261	Chelsea, . . .	4,763	3,505 .73-58	309	Ipswich, . . .	858	566 .65-96
262	Taunton, . . .	4,479	3,293 .73-52	310	Newbury, . . .	224	147 .65-62
263	Billerica, . . .	444	326 .73-40	311	Franklin, . . .	1,044	682 .65-32
264	Millis, . . .	154	113 .73-37	312	Washington, . . .	95	62 .65-26
265	Wenham, . . .	135	99 .73-33	313	Swansea, . . .	232	151 .65-08
266	Hyde Park, . . .	1,924	1,407 .73-12	314	Sandisfield, . . .	160	104 .65-00
267	Lancaster, . . .	334	244 .73-05	315	Tyringham, . . .	79	51 .64-55
268	Shelburne, . . .	263	192 .73-00	316	Shirley, . . .	220	142 .64-54
269	Douglas, . . .	381	278 .72-96	317	Chester, . . .	231	149 .64-50
270	New Ashford, . . .	22	16 .72-72	318	Sherborn, . . .	152	98 .64-47
271	Rehoboth, . . .	295	214 .72-54	319	Middleton, . . .	168	108 .64-28
272	Salisbury, . . .	220	159 .72-27	320	Revere, . . .	1,265	796 .62-92
273	Hatfield, . . .	248	178 .71-77	321	Clinton, . . .	2,032	1,275 .62-74
274	Palmer, . . .	1,208	866 .71-68	322	Haverhill, . . .	4,631	2,904 .62-70
275	Woburn, . . .	2,827	2,016 .71-31	323	Lee, . . .	708	439 .62-00
276	Spencer, . . .	1,878	1,337 .71-19	324	Watertown, . . .	1,306	810 .62-02
277	N. Braintree, . . .	110	78 .70-90	325	Lanesboro', . . .	214	131 .61-21
278	Mashpee, . . .	65	46 .70-76	326	Plympton, . . .	79	48 .60-75
279	Charlton, . . .	301	213 .70-76	327	Wendell, . . .	99	60 .60-60
280	Springfield, . . .	7,318	5,174 .70-70	328	N. Adams, . . .	2,991	1,801 .60-21
281	Carlisle, . . .	85	60 .70-58	329	Westhamp'n, . . .	85	51 .60-00
282	Monterey, . . .	105	74 .70-47	330	Nantucket, . . .	495	294 .59-39
283	Swampscott, . . .	463	324 .69-97	331	Lakeville, . . .	134	79 .58-95
284	Dracut, . . .	383	268 .69-97	332	Lowell, . . .	12,552	7,399 .58-94
285	Northampton, . . .	2,639	1,843 .69-83	333	Newburyp't, . . .	2,352	1,376 .58-50
286	Auburn, . . .	300	209 .69-66	334	Mt. Wash'g't'n, . . .	24	14 .58-33
287	Windsor, . . .	105	73 .69-52	335	Stoughton, . . .	910	529 .58-13
288	Boxford, . . .	150	104 .69-33	336	Rochester, . . .	160	93 .58-12
289	Marion, . . .	153	106 .69-28	337	Lawrence, . . .	9,005	5,202 .57-76
290	Ludlow, . . .	436	300 .68-80	338	Amesbury, . . .	1,623	928 .57-17
291	Seekonk, . . .	260	178 .68-46	339	N. Bedford, . . .	8,605	4,823 .56-04
292	Worthington, . . .	114	78 .68-42	340	Hardwick, . . .	514	284 .55-25
293	Groveland, . . .	500	342 .68-40	341	Ware, . . .	1,684	908 .53-91
294	Southboro', . . .	370	253 .68-37	342	Clarksburg, . . .	200	106 .53-00
295	Egremont, . . .	116	79 .68-10	343	Canton, . . .	751	397 .52-86
296	Longmeadow, . . .	373	254 .68-09	344	Hampden, . . .	118	62 .52-54
297	Fitchburg, . . .	4,238	2,885 .68-07	345	Fall River, . . .	15,680	8,090 .51-59
298	Acushnet, . . .	149	101 .67-78	346	Dudley, . . .	608	306 .50-32
299	Holland, . . .	31	21 .67-74	347	Chicopee, . . .	2,906	1,404 .48-31
300	Raynham, . . .	208	140 .67-30	348	N. Brookfield, . . .	836	400 .47-84
301	Cottage City, . . .	158	106 .67-08	349	Sutton, . . .	690	323 .46-81
302	Goshen, . . .	51	34 .66-66	350	Southbridge, . . .	1,701	686 .40-32
303	Northfield, . . .	251	167 .66-53	351	Holyoke, . . .	7,409	2,884 .38-92
304	Oxford, . . .	447	297 .66-44	352	Webster, . . .	1,426	469 .32-88

GRADUATED TABLES—THIRD SERIES.

[COUNTY TABLES.]

In which all the Towns in the respective Counties in the State are numerically arranged according to the AVERAGE ATTENDANCE of their Children upon the Public Schools for the Year 1892-93.

[For an explanation of the principles on which the Tables are constructed, see *ante*, p. cxxviii.]

BARNSTABLE COUNTY.

TOWNS.			TOWNS.		
		No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.	
1	BARNSTABLE, .	588	574	.97-61	9
2	Provincetown, .	818	763	.93-27	10
3	Chatham, .	275	256	.93-09	11
4	Bourne, .	237	220	.92-82	12
5	Falmouth, .	378	335	.88-62	13
6	Wellfleet, .	164	145	.88-41	14
7	Brewster, .	137	121	.88-32	15
8	Dennis, .	436	383	.87-84	Mashpee, .
					158
					135
					.85-44
					221
					186
					.84-16
					251
					206
					.82-07
					160
					131
					.81-87
					408
					329
					.80-63
					62
					49
					.79-03
					65
					46
					.70-76

BERKSHIRE COUNTY.

1	SAVOY, .	85	83	.97-64	17	Adams, .	1,725	1,316	.76-28
2	Peru, .	37	35	.94-59	18	Lenox, .	488	371	.76-02
3	G. Barrington, .	661	621	.93-94	19	Otis, .	93	69	.74-19
4	Becket, .	136	125	.91-91	20	Alford, .	42	31	.73-80
5	Hinsdale, .	292	259	.88-69	21	New Ashford, .	22	16	.72-72
6	Williamstown, .	669	585	.87-44	22	Monterey, .	105	74	.70-47
7	Dalton, .	504	437	.86-70	23	Windsor, .	105	73	.69-52
8	Richmond, .	152	130	.85-52	24	Egremont, .	116	79	.68-10
9	Florida, .	80	67	.83-75	25	Washington, .	95	62	.65-26
10	Stockbridge, .	364	299	.82-14	26	Sandisfield, .	160	104	.65-00
11	W. Stockbridge, .	323	265	.82-04	27	Tyringham, .	79	51	.64-55
12	N. Marlboro', .	186	151	.81-18	28	Lee, .	708	439	.62-00
13	Sheffield, .	279	224	.80-28	29	Lanesboro', .	214	131	.61-21
14	Cheshire, .	221	176	.79-63	30	North Adams, .	2,991	1,801	.60-21
15	Pittsfield, .	3,561	2,802	.78-68	31	Mt. Washington, .	24	14	.58-33
16	Hancock, .	93	71	.76-34	32	Clarksburg, .	200	106	.53-00

SCHOOL RETURNS.

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BRISTOL COUNTY.

TOWNS.				TOWNS.					
		No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.			No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.
1	N. ATTLEBOROUGH,	1,183	1,072	.90-61	11	Dartmouth, .	478	360	.75-81
2	Easton, .	779	690	.88-57	12	Westport, .	399	294	.73-68
3	Dighton, .	260	220	.84-61	13	Taunton, .	4,479	3,293	.73-52
4	Attleborough,	1,272	1,070	.84-11	14	Rehoboth, .	295	214	.72-54
5	Mansfield, .	634	532	.83-91	15	Seekonk, .	260	178	.68-46
6	Fairhaven, .	443	366	.82-61	16	Acushnet, .	149	101	.67-78
7	Freetown, .	184	149	.80-97	17	Raynham, .	208	140	.67-30
8	Somerset, .	328	261	.79-57	18	Swansea, .	232	151	.65-08
9	Norton, .	222	170	.76-57	19	N. Bedford, .	8,605	4,823	.56-04
10	Berkley, .	151	114	.75-49	20	Fall River, .	15680	8,090	.51-59

DUKES COUNTY.

1	GOENOLD, .	9	9	1.00-00	5	Edgartown, .	145	112	.77-24
2	Chilmark, .	32	31	.96-87	6	W. Tisbury, .	61	47	.77-04
3	Tisbury, .	119	100	.84-03	7	Cottage City,	158	106	.67-08
4	Gay Head, .	21	17	.80-95					

ESSEX COUNTY

1	ESSEX, .	223	237	1.06-27	19	Methuen, .	934	718	.76-87
2	Nahant, .	97	103	1.06-18	20	Rowley, .	190	145	.76-81
3	Manchester, .	201	203	1.00-99	21	Topsfield, .	160	120	.75-00
4	Merrimac, .	425	420	.98-82	22	Hamilton, .	148	109	.73-64
5	Gloucester, .	3,637	3,550	.97-60	23	Wenham, .	135	99	.73-33
6	Marblehead, .	1,116	1,050	.94-08	24	Salisbury, .	220	159	.72-27
7	Peabody, .	1,772	1,655	.93-39	25	Swampscott, .	463	324	.69-97
8	Bradford, .	652	583	.89-41	26	Boxford, .	150	104	.69-33
9	Saugus, .	687	608	.88-50	27	Groveland, .	500	342	.68-40
10	Georgetown, .	357	315	.88-23	28	Salem, .	512	3,400	.66-40
11	Danvers, .	1,183	1,012	.85-54	29	Ipswich, .	858	566	.65-96
12	Rockport, .	676	574	.84-91	30	Newbury, .	224	147	.65-62
13	N. Andover, .	675	571	.84-59	31	Middleton, .	168	108	.64-28
14	Lynn, .	8,869	7,355	.82-92	32	Haverhill, .	4,631	2,904	.62-70
15	Beverly, .	1,782	1,462	.82-04	33	Newburyp't, .	2,352	1,376	.58-50
16	Lynnfield, .	95	77	.81-05	34	Lawrence, .	9,005	5,202	.57-76
17	Andover, .	1,011	808	.79-92	35	Amesbury, .	1,623	928	.57-17
18	W. Newbury, .	268	211	.78-73					

FRANKLIN COUNTY.

	TOWNS.	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.		TOWNS.	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.
1	ASHFIELD, .	106	133	1.25-47	14	Conway, .	245	204	.83-26
2	Sunderland, .	88	93	1.05-68	15	Hawley, .	83	69	.83-13
3	Warwick, .	91	87	.95-60	16	Charlemont, .	179	144	.80-44
4	Bernardston, .	97	91	.93-81	17	Leverett, .	132	106	.80-30
5	Orange, .	837	773	.92-35	18	Rowe, .	75	60	.80-00
6	Greenfield, .	938	866	.92-32	19	Colrain, .	310	246	.79-35
7	Montague, .	1,148	1,022	.89-02	20	New Salem, .	129	99	.76-74
8	Shutesbury, .	80	71	.88-75	21	Leyden, .	60	46	.76-66
9	Erving, .	165	144	.87-27	22	Buckland, .	282	212	.75-17
10	Deerfield, .	424	370	.87-26	23	Monroe, .	39	29	.74-35
11	Gill, .	111	96	.86-48	24	Shelburne, .	263	192	.73-00
12	Heath, .	106	91	.85-84	25	Northfield, .	251	167	.66-53
13	Whately, .	104	89	.85-57	26	Wendell, .	99	60	.60-60

HAMPDEN COUNTY.

1	TOLLAND, .	55	52	.94-54	12	Palmer, .	1,208	866	.71-68
2	Blandford, .	145	135	.93-10	13	Springfield, .	7,318	5,174	.70-70
3	Brimfield, .	153	141	.92-15	14	Ludlow, .	436	300	.68-80
4	W. Sp'gfield, .	963	882	.91-58	15	Longmead'w, .	373	254	.68-09
5	Monson, .	536	480	.89-55	16	Holland, .	31	21	.67-74
6	Southwick, .	141	126	.89-36	17	Russell, .	189	125	.66-13
7	Montgomery, .	34	30	.88-23	18	Wales, .	144	95	.65-97
8	Westfield, .	1,703	1,377	.80-85	19	Chester, .	231	149	.64-50
9	Granville, .	177	140	.79-09	20	Hampden, .	118	620	.52-54
10	Agawam, .	493	386	.78-29	21	Chicopee, .	2,906	1,404	.48-31
11	Wilbraham, .	249	191	.76-70	22	Holyoke, .	7,409	2,884	.38-92

HAMPSHIRE COUNTY.

1	MIDDLEFIELD, .	65	70	1.07 69	13	Pelham, .	92	73	.79-34
2	Easthampton, .	685	667	.97-37	14	Prescott, .	48	38	.79-16
3	Enfield, .	179	164	.91-62	15	Southampt'n, .	175	135	.77-14
4	Amherst, .	574	521	.90-76	16	Plainfield, .	79	60	.75-94
5	South Hadley, .	696	624	.89-65	17	Williamsb'g, .	443	328	.74-04
6	Greenwich, .	64	56	.87-50	18	Hatfield, .	248	178	.71-77
7	Belchertown, .	375	320	.85-33	19	Northampt'n, .	2,639	1,843	.69-83
8	Hadley, .	322	274	.85-09	20	Worthington, .	114	78	.68-42
9	Chesterfield, .	98	80	.81-63	21	Goshen, .	51	34	.66-66
10	Granby, .	120	97	.80-83	22	Westhampt'n .	85	51	.60-00
11	Cummington, .	150	121	.80-66	23	Ware, .	1,684	908	.53-91
12	Huntington, .	271	217	.80-07					

SCHOOL RETURNS.

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MIDDLESEX COUNTY.

TOWNS.				TOWNS.			
	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.		No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.
1 WESTON, . . .	174	205	1.17-81	28 Ashland, . . .	402	355	.88-30
2 Ashby, . . .	114	133	1.16-66	29 Arlington, . . .	943	832	.88-22
3 Natick, . . .	1,416	1,525	1.07-69	30 Lincoln, . . .	142	125	.88-02
4 Melrose, . . .	1,546	1,610	1.04-13	31 Everett, . . .	2,541	2,180	.85-79
5 Lexington, . . .	432	430	.99-53	32 Bedford, . . .	153	129	.84-31
6 Ayer, . . .	414	410	.99-03	33 Chelmsford, . . .	475	388	.81-68
7 Medford, . . .	1,949	1,929	.98-97	34 Wilmington, . . .	222	179	.80-63
8 Littleton, . . .	164	161	.98-17	35 N. Reading, . . .	152	122	.80-26
9 Townsend, . . .	244	239	.97-95	36 Cambridge, . . .	12,451	9,959	.79-98
10 Sudbury, . . .	186	178	.95-69	37 Newton, . . .	4,570	3,628	.79-38
11 Reading, . . .	666	636	.95-49	38 Dunstable, . . .	61	48	.78-68
12 Groton, . . .	330	314	.95-15	39 Winchester, . . .	984	774	.78-65
13 Framingham, . . .	1,665	1,582	.95-01	40 Burlington, . . .	103	81	.78-64
14 Belmont, . . .	400	377	.94-25	41 Marlborough, . . .	2,480	1,937	.78-10
15 Wayland, . . .	332	310	.93-37	42 Malden, . . .	4,205	3,264	.77-62
16 Concord, . . .	643	595	.92-53	43 Holliston, . . .	464	353	.76-07
17 Boxborough, . . .	52	48	.92-30	44 Pepperell, . . .	601	448	.74-54
18 Acton, . . .	264	243	.92-04	45 Wakefield, . . .	1,580	1,175	.74-36
19 Somerville, . . .	7,191	6,608	.91-88	46 Billerica, . . .	444	326	.73-40
20 Hudson, . . .	801	734	.91-63	47 Woburn, . . .	2,827	2,016	.71-31
21 Tewksbury, . . .	306	280	.91-50	48 Carlisle, . . .	85	60	.70-58
22 Stoneham, . . .	919	835	.90-85	49 Dracut, . . .	383	268	.69-97
23 Hopkinton, . . .	628	570	.90-76	50 Waltham, . . .	2,982	1,975	.66-23
24 Westford, . . .	355	320	.90-14	51 Shirley, . . .	220	142	.64-54
25 Tyngsboro, . . .	74	66	.89-18	52 Sherborn, . . .	152	98	.64-47
26 Maynard, . . .	514	458	.89-10	53 Watertown, . . .	1,306	810	.62-02
27 Stow, . . .	137	121	.88-32	54 Lowell, . . .	12,552	7,399	.58-94

NANTUCKET COUNTY.

NANTUCKET,	495	294	.59-39
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NORFOLK COUNTY.

1 NEEDHAM, . . .	476	480	1.00-84	8 Dedham, . . .	1,177	1,048	.89-03
2 Sharon, . . .	205	206	1.00-48	9 Cohasset, . . .	380	337	.88-68
3 Walpole, . . .	382	377	.98-69	10 Foxborough, . . .	461	399	.86-55
4 Weymouth, . . .	1,746	1,702	.97-47	11 Norwood, . . .	764	650	.85-07
5 Randolph, . . .	580	556	.95-86	12 Wrentham, . . .	453	384	.84-76
6 Holbrook, . . .	427	393	.92-03	13 Medway, . . .	527	444	.84-25
7 Norfolk, . . .	157	140	.89-17	14 Milton, . . .	749	626	.83-57

NORFOLK COUNTY — CONCLUDED.

	TOWNS.	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.		TOWNS.	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.
15	Dover, .	96	80	.83-83	22	Quincy, .	4,377	3,228	.73-74
16	Medfield, .	204	168	.82-85	23	Millis, .	154	113	.73-37
17	Braintree, .	832	684	.82-21	24	Hyde Park, .	1,924	1,407	.73-12
18	Brookline, .	2,156	1,761	.81-67	25	Franklin, .	1,044	682	.65-32
19	Bellingham, .	230	180	.78-26	26	Stoughton, .	910	529	.58-13
20	Avon, .	264	202	.76-51	27	Canton, .	751	397	.52-86
21	Wellesley, .	520	390	.75-00					

PLYMOUTH COUNTY.

1	HINGHAM, .	587	584	.99-48	15	Hanson, .	174	144	.82-75
2	Plymouth, .	1,382	1,374	.99-42	16	Wareham, .	495	400	.80-80
3	Rockland, .	838	829	.98-92	17	Middleboro', .	927	734	.79-15
4	Kingston, .	250	247	.98-80	18	Pembroke, .	192	148	.77-08
5	Marshfield, .	213	209	.98-12	19	Mattapoisett, .	166	127	.76-50
6	Bridgewater, .	487	455	.93-42	20	W. Bridgew'r, .	279	210	.75-26
7	E. Bridgew'r, .	443	410	.92-55	21	Halifax, .	87	65	.74-71
8	Duxbury, .	276	249	.90-21	22	Scituate, .	437	323	.73-91
9	Carver, .	147	132	.89-79	23	Hull, .	103	76	.73-78
10	Abington, .	702	624	.88-88	24	Marion, .	153	106	.69-28
11	Whitman, .	838	714	.85-20	25	Plympton, .	79	48	.60-75
12	Norwell, .	213	180	.84-50	26	Lakeville, .	134	79	.58-95
13	Hanover, .	305	255	.83-60	27	Rochester, .	160	93	.58-12
14	Brockton, .	4,788	3,968	.82-87					

SUFFOLK COUNTY.

1	WINTHROP, .	445	389	.87-41	3	Chelsea, .	4,763	3,505	.73-58
2	Boston, .	73176	55203	.75-43	4	Revere, .	1,265	796	.62-92

WORCESTER COUNTY.

1	OAKHAM, .	85	99	1.16-47	7	Rutland, .	147	147	1.00-00
2	Mendon, .	129	135	1.04-65	8	Dana, .	90	90	1.00-00
3	Hubbardston, .	169	175	1.03-55	9	Royalston, .	137	135	.98-54
4	Leominster, .	1,039	1,052	1.01-25	10	Northboro', .	310	298	.96-12
5	Upton, .	257	260	1.01-16	11	Shrewsbury, .	246	235	.95-52
6	Princeton, .	131	131	1.00-00	12	Ashburnham, .	371	343	.92-45

SCHOOL RETURNS.

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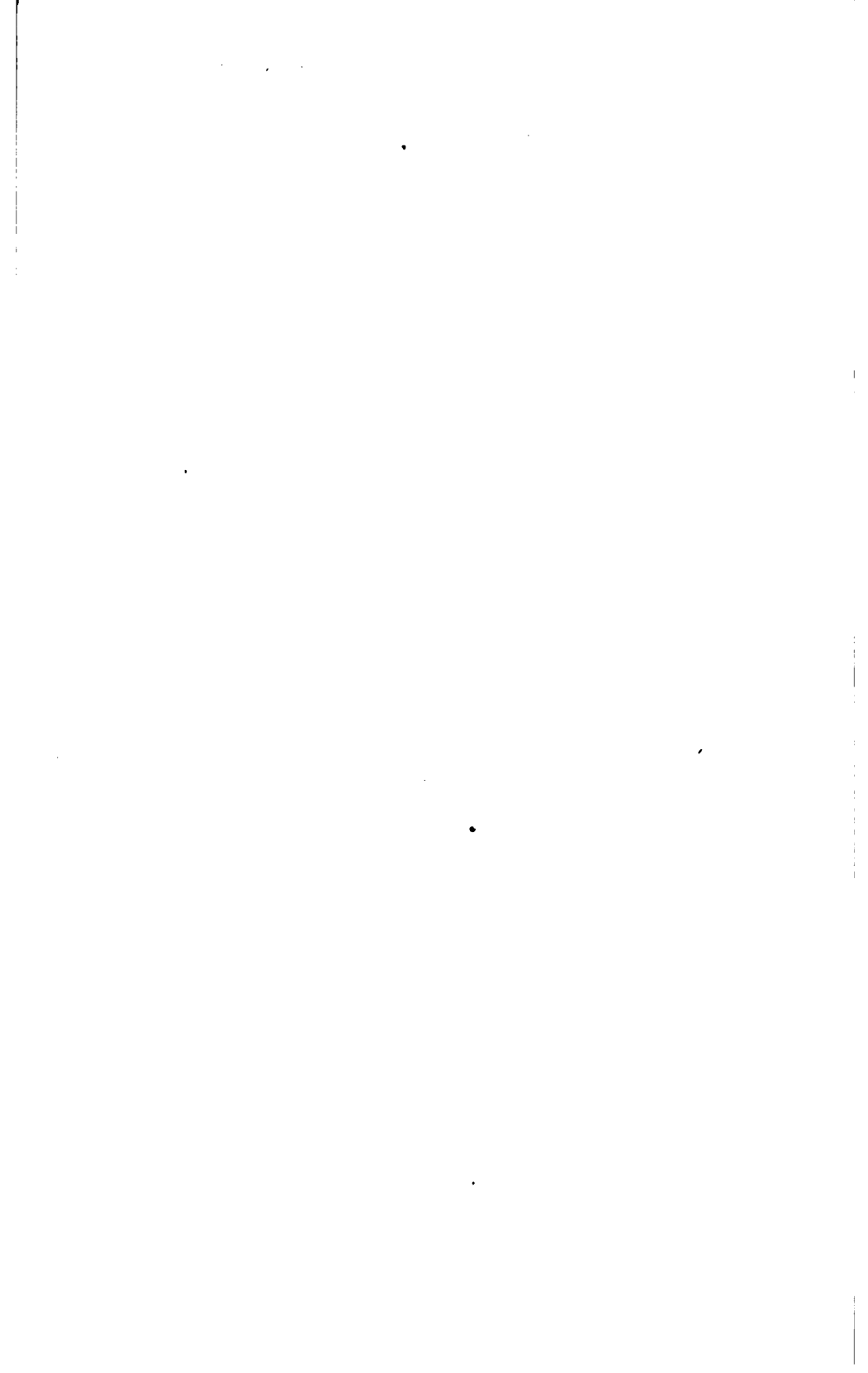
WORCESTER COUNTY — CONCLUDED.

	TOWNS.	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.		TOWNS.	No. of children between 5 and 15 years of age in each town.	Average attendance upon School.	Ratio of attendance to the whole No. of children between 5 and 15, expressed in decimals.
13	Uxbridge, .	540	497	.92-03	37	Grafton,	936	739	.78-95
14	Hopedale, .	194	178	.91-75	38	Petersham, .	148	115	.77-70
15	W. Boylston,	494	446	.90-28	39	Blackstone, .	915	710	.77-59
16	Holden, .	473	423	.89-42	40	Boylston, .	116	90	.77-58
17	Westboro', .	686	613	.89-35	41	Phillipston, .	78	60	.76-92
18	Northbridge,	806	711	.88-21	42	Sturbridge, .	877	289	.76-65
19	Winchendon,	769	676	.87-90	43	Worcester, .	15790	11727	.74-26
20	Leicester, .	555	487	.87-74	44	Lancaster, .	334	244	.73-05
21	Milford, .	1,293	1,132	.87-54	45	Douglas, .	381	278	.72-96
22	Gardner, .	1,401	1,219	.87-00	46	Spencer, .	1,878	1,337	.71-19
23	Athol, .	948	812	.85-65	47	N. Braintree,	110	78	.70-90
24	Harvard, .	140	117	.83-57	48	Charlton, .	301	213	.70-76
25	Westminster,	262	218	.83-20	49	Auburn, .	300	209	.69-66
26	Bolton, .	131	108	.82-44	50	Southboro', .	370	253	.68-37
27	W. Brookfi'd,	236	193	.81-77	51	Fitchburg, .	4,238	2,885	.68-07
28	Sterling, .	184	150	.81-52	52	Oxford, .	447	297	.66-44
29	Millbury, .	911	741	.81-33	53	Clinton, .	2,032	1,275	.62-74
30	Brookfield, .	528	429	.81-25	54	Hardwick, .	514	284	.55-25
31	Paxton, .	58	47	.81-03	55	Dudley, .	608	306	.50-32
32	Templeton, .	546	442	.80-95	56	N. Brookfield,	836	400	.47-84
33	Berlin, .	130	105	.80-76	57	Sutton, .	690	323	.46-81
34	Warren, .	924	742	.80-30	58	Southbridge,	1,701	686	.40-32
35	Lunenburg, .	191	153	.80-10	59	Webster, .	1,426	469	.32-88
36	Barre, .	379	303	.79-94					

Table in which all the Counties are numerically arranged, according to the AVERAGE ATTENDANCE of their Children upon the Public Schools for the Year 1892-93.

1891-92.	1892-93.	COUNTIES.	Ratio of Attendance.
1	1	BARNSTABLE, . . . . .	.89-00
3	2	Franklin, . . . . .	.86-30
2	3	Plymouth, . . . . .	.86.05
6	4	Norfolk, . . . . .	.80-02
4	5	Middlesex, . . . . .	.79-56
11	6	Dukes, . . . . .	.77-24
7	7	Suffolk, . . . . .	.75-19
5	8	Hampshire, . . . . .	.74-93
9	9	Berkshire, . . . . .	.74-72
8	10	Essex, . . . . .	.74-18
10	11	Worcester,73-98
12	12	Bristol,61-49
13	13	Hampden,61-06
14	14	Nantucket,59-39
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PUBLIC DOCUMENT.

. No. 3.

REPORT OF THE LIBRARIAN

OF THE

STATE LIBRARY,

FOR THE

YEAR ENDING SEPTEMBER 30, 1893,

AND

FOURTEENTH ANNUAL SUPPLEMENT

TO THE GENERAL CATALOGUE.

BOSTON:
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,
18 POST OFFICE SQUARE.
1894.

TRUSTEES OF THE STATE LIBRARY.

ARTHUR LINCOLN	.	.	.	HINGHAM.
EDWARD E. HALE	.	.	.	BOSTON.
STEPHEN O'MEARA	.	.	.	BOSTON.

COMMITTEE ON EDUCATION OF THE LEGISLATURE, 1893.

Messrs. STEPHEN SALISBURY, WORCESTER,	}	<i>Of the Senate.</i>
JOHN READ, CAMBRIDGE,		
EDWARD J. LEARY, BOSTON,		

Messrs. ALFRED S. ROE, WORCESTER,	}	<i>Of the House.</i>
MICHAEL B. GILBRIDE, BOSTON,		
BENJAMIN J. SULLIVAN, BOSTON,		
THOMAS W. RICH, CHELSEA,		
OLIVER B. MERRILL, NEWBURYPORT,		
SILAS A. FORBUSH, GRAFTON,		
ABNER RICE, LEE,		
THOMAS CARROLL, PEABODY,		

OFFICERS OF THE LIBRARY.

C. B. TILLINGHAST	.	.	.	LIBRARIAN.
Miss ELLEN M. SAWYER	.	.	.	PRINCIPAL ASSISTANT.
Miss MARIA C. SMITH	}	.		ASSISTANTS.
Miss JENNIE W. FOSTER				
Miss SUSY A. DICKINSON				
J. F. MUNROE				

Commonwealth of Massachusetts.

LIBRARIAN'S REPORT.

To the Honorable Legislature of Massachusetts.

The Librarian of the State Library, in accordance with section 21 of chapter 5 of the Public Statutes, submits the following report for the year ending Sept. 30, 1893 :—

ADDITIONS.

*Number of Volumes added to the Library from Oct. 1, 1892, to
Sept. 30, 1893.*

By purchase	1,259
domestic exchange	446
foreign exchange	84
donation	937
officers of government	123
	<hr/>
	2,849

Pamphlets.

By purchase	266
domestic exchange	213
foreign exchange	20
donation	2,811
officers of government	217
	<hr/>
	3,527

Maps	80
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FINANCIAL STATEMENT.

DR.	COMMONWEALTH OF MASSACHUSETTS IN ACCOUNT WITH STATE LIBRARY.	CR.
1893.	1892.	
Oct. 1 to Sept. 30, 1893.	\$1,681 02	Amount drawn from appropriations for 1892 .
	1,074 89	Regular appropriation for 1893 .
	649 89	Appropriation for contingent expenses .
	543 28	
	252 00	
	251 40	
	166 25	
	125 00	
	107 68	
	86 00	
	84 25	
	30 00	
	29 40	
	25 00	
	24 00	
	18 00	
	12 00	
	10 00	
	8 00	
	21 00	
	6 00	
	7 25	
	94 40	
	595 57	
	58 55	
	203 23	
	32 83	
Balance .	\$6,096 99	\$6,096 99

By the foregoing account, which embraces the library year from Oct. 1, 1892, to Sept. 20, 1893, inclusive, it will be seen that the receipts and expenditures may be aggregated as follows : —

RECEIPTS.

Drawn from appropriations for 1892	\$96 99
Drawn from appropriations for 1893	5,967 17
	<hr/>
	\$6,064 16

EXPENDITURES.

Books, periodicals, pamphlets and maps	\$5,206 81
Binding	595 57
Messenger and other expenses	261 78
	<hr/>
	\$6,064 16

The amount expended for books, periodicals, pamphlets and maps each year, for the last ten years, has been as follows : —

1884	\$2,763 85
1885	4,259 01
1886	3,244 90
1887	4,553 71
1888	4,875 47
1889	4,949 45
1890	5,415 41
1891	4,991 23
1892	5,240 29
1893	5,206 81

GROWTH OF THE LIBRARY.

The following table of comparisons will show at a glance the annual additions that have been made to the library during the past ten years, and the general classification of sources from which they were received : —

Books.

	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
By purchase	1,020	1,584	1,469	1,045	1,857	1,385	1,565	1,411	1,508	1,259
domestic exchange	485	481	440	471	493	658	490	428	442	446
foreign exchange	41	77	88	38	97	98	75	85	56	84
donation	886	819	806	842	954	803	1,179	993	878	997
officers of government	62	64	75	117	73	375	126	87	223	123
Totals	2,494	3,025	2,878	2,513	3,414	3,269	3,425	3,004	3,107	2,849

PAMPHLETS.

	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
By purchase	1,192	425	179	150	185	143	285	537	232	266
domestic exchange	240	180	18	30	100	75	96	437	205	213
foreign exchange	88	63	45	15	50	68	103	51	17	20
donation	2,522	2,766	2,985	2,543	1,837	2,253	2,318	3,188	2,359	2,811
officers of government	54	135	446	213	124	1,061	611	371	666	217
Totals	4,096	3,569	3,073	2,951	2,296	3,600	3,413	4,584	3,479	3,527

As in previous years, the library has been indebted to many different persons for useful and valuable gifts, especially of pamphlets and books printed privately or in limited editions. The name of the donor will be found appended to each gift in the following catalogue of the additions made during the year.

It will be seen that the accessions from all sources, as represented in the catalogue, have covered a wide range of subjects, which, by liberal interpretation, properly come within the range of literature which a State library should contain.

The development of the library in the special lines of statute law, reports of judicial decisions, political, social and economic science, local history and genealogy, and the official publications of the general government and of the several States, has received constant and watchful care. No effort has been spared to make all portions of the collection readily available to any person engaged in special research.

CHANGE IN THE LAW.

The Legislature of 1893 passed a law the effect of which was to separate the library from any official relation to the Board of Education, and to make the State Librarian an appointee of the Governor and Council, to serve during their pleasure.

C. B. TILLINGHAST,
Librarian.

FOURTEENTH ANNUAL SUPPLEMENT

TO THE

GENERAL CATALOGUE,

INCLUDING THE

ADDITIONS FOR THE YEAR ENDING SEPT. 30, 1893.

ADDITIONS TO THE STATE LIBRARY

FOR THE

YEAR ENDING SEPTEMBER 30, 1893.

Note.—The figures in brackets at the end of the titles indicate the sources from which the books were received, thus, [1], received by purchase; [2], by exchange; [3], by donation (names of individual donors being added); [4], from officers of government.

- Abandoned farms.** *See Massachusetts. Board of Agriculture.*
- Abbe, Cleveland.** On the production of rain. *n.t.p.* [1892.] 8°. (13) p. [3]
- Abbot, Francis Ellingwood.** Professor Royce's libel. A public appeal for redress to the corporation and overseers of Harvard University. Bost., 1891. 8°. 48 p. [3]
- Abbott, Austin.** A digest of New York statutes and reports, Jan. 1, 1892-93, with tables of statutes, constitutional provisions, rules of court, and cases cited. N. Y., 1893. 1. 8°. [1]
- New cases selected chiefly from the decisions of the courts of the state of New York, [1891-93]. With an analytical index to points of law and practice in the standard reports of New York. Vol. 28-29. N. Y., 1892-93. 2 v. 8°. [1]
- Abbott, Evelyn, editor.** Heroes of the nations. N. Y., 1893. 2 v. 12°. Portraits, folded maps and illus. [1]

Namely.

Morris, W. O. Napoleon and the military supremacy of revolutionary France.
Sergeant, L. John Wyclif.

- Aber, Mrs. Mary Alling.** Souls. *h.t.p.* [Chicago], 1893. 12°. 176 p. [3, *Author.*]
- Abington, Mass. Directory.** *See Foss, A. E., & Co.*
- Abstracts of title.** *See Warvelle, G. W.*
- Acheson, E. G.** Carborundum: its history, manufacture and uses. Phila., 1893. 8°. 29 p. [3]
- Acme Haversack, The,** of patriotism and song. Vol. 5, no. 6; v. 6, no. 2. Nov. 1891 with addition March 1892; May 1892. Syracuse, N. Y., 1891-92. 1. 8°. Illus. [3]
- Actinise.** *See United States. National Museum.*
- Adams, Charles Francis.** The centennial milestone. Address in commemoration of the 100th anniversary of the incorporation of Quincy, July 4, 1892. Camb., 1892. 8°. 59 p. Plates. [3, *Author.*]
- The Coddington school lands. The Mount Wollaston cemetery and alms-house farm. *n.t.p.* [Quincy, Mass., 1891.] (5) p. [3]
- Cuttings from the Quincy Patriot, Sept. 19, 1891.

Adams, Charles Francis, continued.

- Columbus and the Spanish discovery of America. Camb., 1892. 8°. 23 p. [3, *Author*.]
- *Same*. [With remarks by G. E. Ellis, Gamaliel Bradford, and others.] Camb., 1892. 8°. 31 p. [1]
- Reform in city government. [Address before the Worcester Board of Trade, March 24, 1893. Springfield, 1893.] 8°. [3]

Cutting from the Springfield Republican, March 31, 1893.

- Speech at the hearing before the committee on taxation on House bill no. 664, [Boston, March 24, 1893]. *h.t.p.* [Bost., 1893.] 8°. 13 p. [3, *Author*.]
- Three episodes of Massachusetts history: The settlement of Boston Bay, The Antinomian controversy, A study of church and town government. Bost., 1892. 2 v. 12°. vi, (1), 532 p.; iv, 533-1067 p. Folded maps. [1]

Adams, Charles Kendall. Johnson's universal cyclopædia. New ed. Illus., maps [and] plans. Vol. 1. N. Y., 1893. 1. 8°. xxxv, (4), 880 p. [1]

Contents.

Vol. 1. A — Calculus.

— See University of Wisconsin.

Adams, Henry. See Housatonic, *pseud.*

Adams, Henry Carter, editor. Philanthropy and social progress. Seven essays before the School of Applied Ethics, Plymouth, Mass., 1892. N. Y., [1893]. 12°. xi, 268 p. [1]

Adams, Herbert Baxter. The life and writings of Jared Sparks, comprising selections from his journals and correspondence. Bost., 1893. 2 v. 8°. II, 672 p.; xviii, (1), 639 p. Portraits. [1]

Adams, John Quincy, Pres. of the U. S. See Lincoln, L.

Adams, Samuel. See Garfield, J. A., *Pres. of the U. S.*

Adams family. See Whittemore, H.

Adams Academy, Quincy, Mass. Catalogue, 1875-6. Bost., 1876. 12°. 33 p. [3]

Addison, Charles Greenstreet. A treatise on the law of torts; or, Wrongs and their remedies. 7th ed. By Horace Smith and A. P. P. Keep. Lond., 1893. 1. 8°. lxxxix, 893, (1) p. [1]

Adler, Felix. The moral instruction of children. N. Y., 1892. 12°. xiii, 270 p. (Harris, W. T., ed. International educ. ser., v. 21.)

Africa. See Bryden, H. A.; — Great Britain. *Parliament*; — Keltie, J. S.; — Letters from South Africa; — Sheldon, Mrs. M. F.; — United States. *Coast and Geodetic Survey*, — *National Museum*.

African colonization. See Latrobe, J. H. B.

Agassiz, (Jean) Louis (Rodolphe). See Holder, C. F.

Agricultural implements. See Breck, J., & Sons.

Agricultural laborers. See Great Britain. *Royal Commission on Labour*; — Kebbel, T. E.

Agricultural societies. See Massachusetts. *Board of Agriculture*.

Agriculture. See King, P. S., & Son; — United States. *Congress*, — *Department of Agriculture*, — and the names of various states and societies for their annual reports on agriculture.

Alabama. Agricultural Experiment Station, Agricultural and Mechanical College, Auburn. 4th-5th annual report, Jan. 1892-93. Montgomery, 1892-93. 8°. [3]

— Bulletin, no. 38-47. July 1892-July 1893. Montgomery, 1892-93. 8°. Plates. [3]

— *Canebrake Agricultural Experiment Station, Uniontown.* Bulletin, no. 15. July 1892. Montgomery, [1892]. 8°. [3]

— *General Assembly.* Acts, 1892-93. Montgomery, 1893. 8°. [2]

— *Geological Survey.* Bulletin, no. 4. Montgomery, 1892. 8°. Folded map and plate. [3]

Contents.

No. 4. **Hayes, C. W.** Report on the geology of north-eastern Alabama, and adjacent portions of Georgia and Tennessee.

Alabama. Geological Survey, continued.

- Report on the geological structure of Murphree's Valley, and its minerals and other materials of economic value. By A. M. Gibson. Montgomery, 1893. 8°. 132 p. [3]
- Governor. Message of T. G. Jones [to the General Assembly, Nov. 16, 1892]. *A.t.p.* [1892.] 8°. 37 p. [4]
- Supreme Court. Reports of cases, 1891. J. W. Shepherd, state reporter. Vol. 94. Montgomery, 1893. 8°. [2]
- Weather Service (*subordinate to the United States Weather Bureau*). Report, Sept. 1892—June 1893. [Monthly.] *n.t.p.* Auburn, 1892-93. [3]
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- 13th report. Lond., 1892. 8°. 57 p. [1]
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- Mines, miners, and minerals. Return showing the number of miners at work under the Coal and Metalliferous Mines Regulation acts, during 1891; the number of persons employed; the tonnage of mineral raised, etc. Lond., [1892]. f°. 3, (1) p. [1]
- *House of Commons.* See Reid, D. B.
- *House of Lords.* See Macpherson, W. C.
- *India Office.* Brussels conference, reports of Indian delegates. Return, 25th March, 1893. Lond., [1893]. f°. 5 p. [1]
- East India, employment of women and children in mines. Return, 1893. Lond., [1893]. f°. 110 p. [1]
- Indian currency committee. Report. Lond., 1893. f°. 43 p. [1]
- *Same.* Minutes of evidence taken before the committee, with an analysis of the evidence, and appendices. Lond., 1893. f°. xiii, 338 p. [1]
- *Same.* Further papers: correspondence and proceedings of the government of India. Lond., 1893. f°. 20 p. [1]
- *Same.* Index to the report, evidence, and previously unpublished papers laid before the committee. Lond., 1893. f°. 20 p. [1]
- Indian currency. Correspondence between the government of India and the Secretary of State. Lond., 1893. f°. 15 p. [1]
- Report on sanitary measures in India, 1890-91. Vol. 24. Lond., 1892. f°. [1]
- Return of the East India financial statement, 1893-94, and of the debate and proceedings thereon in the Legislative Council of India, 30th March, 1893. Lond., 1893. f°. 114 p. [1]
- Statement of the trade of British India with British possessions and foreign countries for the five years, 1887/88-91/92. Lond., 1893. f°. 146 p. [1]
- *Inspector [of] Reformatory and Industrial Schools.* 35th-36th report, 1891-92. Lond., 1892-93. 2 v. 8°. [1]

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- *Inspectors of Constabulary*. Police, counties and boroughs. Reports for the year ending 29th Sept. 1892. Lond., [1893]. f°. [1]
- *Inspectors of Explosives*. 17th annual report, 1892. Lond., 1893. f°. [1]
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- *Inspectors of Mines*. List of mines worked in 1892. Lond., 1893. f°. 240 p. Maps. [1]
- *Mines and minerals*. Mineral statistics of the United Kingdom of Great Britain and Ireland, with the Isle of Man, 1892. Lond., 1893. f°. Maps and diagram. [1]
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- *Same*. No. 6, 1892. Papers relative to slave trade and slavery in Zanzibar. Lond., [1892]. f°. (2), 8, (1) p. [1]
- *Same*. No. 7, 1892. Papers relative to arrangements between Great Britain and France respecting West Africa. Lond., [1892]. f°. (2), 26, (1) p. [1]
- *Arrangement of the papers printed by order of the House of Commons, and of papers presented by command, session 1890-91, 24th Parliament, 6th session. With a list of papers, etc., and table and index to the public general acts passed in this session*. [Lond., 1891.] f°. x, cvii, 152 p. [1]
- *Belgium*. Report upon the proceedings in connection with the referendum vote upon universal suffrage which took place in Brussels and its suburbs, Feb. 26, 1893. Lond., [1893]. f°. 9 p. [1]
- *Canada*. Further papers relative to the present working of the liquor laws in Canada. Lond., 1892. f°. 9 p. [1]
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- - General index to the journals of the House of Lords, 1854-63. [Vol. 86-95.] Lond., 1892. f°. [1]
- - Government of Ireland bill, 1893, constituencies. Return showing the population, total rateable value, number of ratings valued over 20 l., etc., 7th March 1893. Lond., [1893]. f°. 3, (1) p. [1]
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- - Local acts, 7th session, 24th Parliament, [1892. With private act], and index. [Lond., 1892.] 6 v. l. 8°. [1]
- - Metropolitan police courts. Report of departmental committee of 1892-93 upon the number and limits of the police court districts and the arrangements for service of the courts by the magistrates. Lond., [1893]. f°. 9 p. [1]
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- - Persia. No. 1, 1892. Correspondence respecting the Persian tobacco concession. Lond., [1892]. f°. vi, 96 p. [1]
- - Public general statutes, 1892. *See* Law Reports.
- - Report and special report from the select committee on the shop hours bill, with the proceedings of the committee, minutes of evidence, appendix and index. Lond., [1892]. f°. xiv, 281 p. [1]
- - 3d report from the select committee of the House of Lords on metropolitan hospitals, &c., with proceedings, minutes of evidence and appendix. Lond., [1892]. f°. cx, cviii, 89 p. [1]

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- Report from the select committee on elementary education, blind and deaf children, bill, with the proceedings of the committee. Lond., [1893]. f°. vii p. [1]
- Report from the select committee on Parliamentary debates, with the proceedings of the committee. Lond., [1893]. f°. xii p. [1]
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- Report from the select committee on sea fisheries, with the proceedings of the committee. Lond., [1893]. f°. xxii p. [1]
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- New Hampshire.** *Asylum for the Insane.* Reports of the board of visitors, trustees, *etc.*, June 1857, 66. Concord, 1857-66. 8°. [3]
- *Board of Library Commissioners.* Free public libraries. 1st report, Dec. 1, 1892. Concord, 1892. 8°. 36 p. [3]
- Supplementary to the report of the State Librarian.
- *Commission for the Preservation, Protection and Appropriation of the Endicott Rock, Weirs.* Report, [Oct. 26, 1892, with addresses on its completion]. Concord, 1893. 8°. 22 p. Illus. [3]
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- *General Court.* Laws passed at a session begun June 1792. Portsmouth, 1792. 8°. [1]
- *Same.* Laws, Jan. session, 1893. Concord, 1893. 8°. [2]
- *Session of 1874.* The member from Cranberry Corner renders an account to his constituents. [Anon.] *n.p.*, [1847]. 8°. 16 p. Maps. [1]

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- *Governor*. Message of H. A. Tuttle to the two branches of the Legislature, Jan. session, 1891. Concord, 1891. 8°. 31 p. [4]
- - Message of J. B. Smith to the two branches of the Legislature, Jan. session, 1893. Concord, 1893. 8°. 25 p. [4]
- *Secretary of State*. Manual for the General Court, 1893. No. 3. Concord, 1893. 12°. Portrait. [3]
- *Soldiers' Home, Tilton*. 2d report of the board of managers, 1891-92. Concord, 1893. 8°. Illus. [3]
- *State Board of Agriculture*. Gems of the Granite State. *A.t.p.* [Concord, N. H., 1893.] obl. 12°. 104 p. Illus. [3]
- - Lakes and summer resorts in New Hampshire. Manchester, 1891. 8°. 55 p. Illus. [3]
- - *Same*. 1892. Concord, 1892. 8°. 97 p. Illus. [3]
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- *State Librarian*. [23d annual] report, Oct. 1892. Concord, 1892. 8°. [3]
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- Class A. History of education.
- Class B. Views of school buildings.
- Class C. Scholars' written work.
- Class D. Photographs of educators.
- Class E. School records.
- Class F. Private institutions.
- Class G. Town school reports.

- See General address, *etc.*;—Hazen, H. A.;—Hurd, D. H., & Co.;—Portsmouth, N. H. Celebration of the Centennial Anniversary of the Introduction of the Art of Printing into New Hampshire.

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- *Court of Chancery, Prerogative Court, etc.* Reports of cases, [1891-92]. S. M. Dickinson, reporter. Vol. 4. [New Jersey equity reports, v. 49.] Trenton, 1893. 8°. [2]

— *General Assembly*. Acts, General Assembly, begun Oct. 1777, 4th sitting, 2d session, [Sept.]-Oct. 1778; 8th General Assembly, begun Oct. 1783, [1st sitting]; 9th General Assembly, begun Oct. 1784, 1st sitting; 10th General Assembly, begun Oct. 1785, 1st sitting; [Feb. 1786], 2d sitting; 29th General Assembly, begun Oct. 1804, 1st sitting; 35th General Assembly, begun Oct. 1810, 1st sitting; Public acts, 36th General Assembly, begun Jan. 1812, 2d sitting; 37th General Assembly, begun Oct. 1812, 1st sitting; [Feb. 1813], 2d sitting; 38th General Assembly, begun Oct. 1813, 1st sitting; Jan. 1814, 2d sitting; 39th General Assembly, begun Oct. 1814, 1st sitting; [Jan. 1815, 2d sitting]. Trenton, [1778]-1815. 13 v. in 12. f° and 8°. [1]

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- Private and temporary acts, 36th General Assembly, begun [Oct. 1811], 1st sitting; Jan. 1812, 2d sitting; 37th General Assembly, begun Oct. 1812, 1st sitting; [Feb. 1813], 2d sitting; 38th General Assembly, begun Jan. 1814, 2d sitting; 39th General Assembly, begun Oct. 1814, 1st sitting; [Jan. 1815], 2d sitting; 40th General Assembly, begun Oct. 1815, 1st sitting; [Jan. 1816], 2d sitting; 41st General Assembly, begun Oct. 1816, 1st sitting; Jan. 1817, 2d sitting; 42d General Assembly, begun Oct. 1817, 1st sitting; [Jan. 1818], 2d sitting. Trenton, 1811-18. 13 v. in 9. sm. 8°. [1]

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- *Governor*. Annual message of Leon Abbett to the Legislature, session of 1891. Jersey City, [1891]. 8°. 99, (16) p. [4]
- *Governor and Council*. Journal, 1756-68. See, forward, *Legislature*.
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- A digest of the laws of New Jersey, also the constitutions of the United States and of this state, and the rules and decisions of the courts. By L. Q. C. Elmer. Bridgeton, 1838. 8°. xxiv, 728 p. [1]
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- New Jersey school laws, with notes, blanks and forms for the use of school officers. Trenton, 1893. 8°. 229 p. [2]
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- See Raum, J. O.

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- *See United States. Congress.*

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- *Commissioner for Railways.* New South Wales government railways and tramways. Annual report, 30 June 1889-90. *A.t.p.* [Sydney, 1889-90.] 2 v. f°. Folded maps and charts. [2]
- *Commissioner to [the International Exhibition in Paris, 1889], to Inquire into Technical Education.* Report on technical education and manual training at the Paris Universal Exhibition, 1889, Great Britain, France, and the United States. By Edward Combes. Sydney, 1891. f°. (2), 315 p. Folded plan and diagrams. [2]
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- - Silos, ensilage, and silage. By J. A. Despeissis. Miscellaneous publication, no. 6. Sydney, 1892. 8°. 28 p. Illus. [2]
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- Vol. 1. Aboriginals—Justices of the peace.
- 2. Kerosene—Written memorandum.

- - Parliamentary debates, 1st series, session 1892-93. Sydney, 1892-93. 8 v. 8°. [3]

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- - Statutes, 1890-91-2. Sydney, 1891-92. 2 v. f°. [2]
- - *See Oliver, A.* Chronological table, etc. 1881.
- *Postmaster-General.* Annual report, 1888-90. Sydney, 1889-91. 3 v. f°. [2]
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- - Mineral map and general statistics. Sydney, 1876. 8°. (9) p. Folded map. [3]
- *See Warren, W. H.*
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- - **Directory**, Jan. 1893. N. Y., 1893. 24°. [3]
 - - **Journal**, 1892. N. Y., 1892. 8°. [3]
 - - **Manual**, 1893. N. Y., 1893. 24°. [3]
 - - **Report of the select committee in relation to the propriety and expediency of establishing a free academy for females.** N. Y., 1849. 8°. 26 p. [3]
 - - **Report of the special committee of eight on the memorial of the Public Education Society, March 6, 1889.** N. Y., 1889. 8°. 12 p. [3]
 - - **Report on the system of popular education in the city, May 28, 1861.** N. Y., 1861. 8°. 32 p. Folded sheet. [3]
 - **Chief of Police.** Semi-annual report, June 30, 1854. N. Y., 1854. 8°. [3]
 - **Department of Buildings.** See, *forward*, **Architects', Property-Owners' and Builders' Association.**
 - **Lunatic Asylum.** Report, Jan. 1, 1867. N. Y., 1867. 8°. Folded schedule. [3]
 - **Meteorological Observatory of the Department of Public Parks.** Report, 1892. Daniel Draper, director. N. Y., 1892. 4°. [3]
 - **Superintendents of Public Schools.** Letters, with correspondence on the principles of education practically defined and illustrated. N. Y., 1868. 8°. 26 p. [3]
 - **Superior Court.** See Jones, S., and Spencer, J. C. Reports of cases, 1892, v. 59-60.
 - **Water Commissioners.** Semi-annual report, 20th March—31st Dec. 1840. Document no. 39. [N. Y., 1841.] 8°. (46) p. [3]
 - **Clubs.** See Club men of New York.
 - **Description.** See King, M.; — Mines, J. F.; — Noyes, G. F.; — Ober, C. F., and Westover, C. M.; — Riis, J. A.; — Sun's guide, etc.
 - **History.** See Wilson, J. G., ed.
 - **Investments.** See Crittenden, J. P., and Helffrich, C. B.
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 - **Association for Improving the Condition of the Poor.** 9th annual report, 1852, with the by-laws and a list of members. N. Y., 1852. 12°. [3]
 - **Association of the Bar of the City of New York.** 23d annual report, and charter, constitution, by-laws, etc., 1893. N. Y., [1893]. 8°. [3]
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 - - **Report and resolutions adopted [by the Board relative to the Nicaragua Canal].** n.t.p. [N. Y., 1892.] 8°. 7 p. [3, H. A. Hill.]
 - **Chamber of Commerce.** 35th annual report of the corporation, 1892-93. N. Y., 1893. 8°. [3]
 - **Committee on the Centennial of Washington's Inauguration.** The history of the centennial celebration of the inauguration of George Washington as first President of the United States. Ed. by C. W. Bowen. N. Y., 1892. 4°. xviii, 673 p. Portraits, folded plan and illus. [3]
- No. 486 of the edition.
- **Custom House.** See Arthur, C. A.
 - **Holland Society.** Constitution, by-laws, officers, etc., June, 1891. N. Y., 1891. 12°. 73 p. [4]
 - - **Year book, 1888-89.** n.p., [1889]. 1. 8°. Portraits and illus. [4]
 - **Howard Mission and Home for Little Wanderers.** The Little Wanderers' Friend. Extra. Origin and history of the mission, plan of operations, etc. N. Y., [1867]. 12°. 72 p. Illus. [3]

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- **Mass Meeting, March 6, 1865.** National celebration of Union victories. N. Y., 1865. 8°. 72 p. [2]
 - **Mass Meeting of Loyal Citizens, March 6, 1863.** Loyal meeting of the people of New York to support the government, prosecute the war and maintain the Union, Cooper Institute, March 6, 1863. N. Y., 1863. 8°. 52, (1) p. [2]
 - **Mercantile Library Association.** 70th-72d annual report of the board of direction, April 1890-93. [N. Y.], 1891-93. 8°. Portrait and illus. [3]
 Appended to the 71st annual report is a historical sketch of the library, and an account of the exercises at the opening of the new building, Nov. 9, 1891.
 - **Bulletin of new books, no. 14.** Dec. 1, 1892. N. Y., 1892. 1. 8°. [3]
 - **Finding list of French prose fiction, Feb 1888** [N. Y.], 1888. 1. 8°. 76, (2) p. [3]
 - **National Bank of Commerce.** 9th, 12th annual statement to the shareholders, May 12, 1873, May 8, 1876. *h.t.p.* [N. Y., 1873-76] 8°. [3]
 - **New York Infirmary. Woman's Medical College.** 28th year, annual catalogue and announcement, June 1893. N. Y., 1893. 8°. [3]
 - **New York Mathematical Society.** Bulletin. Vol. 1, no. 1. Oct. 1891. N. Y., 1891. 8°. 32 p. [3]
 - **Old Dominion Society.** 1st celebration of the anniversary of the settlement at Jamestown, Va, 13th May, 1607, Hon. George W. Summers, orator. N. Y., 1860. 8°. 109 p. [1]
 - **Public Education Society.** See *New York, City. Board of Education*
 - **Public School Society.** 39th, 42d annual report of the trustees. N. Y., 1845-48. 8°. [3]
 - **By-laws of the trustees revised and adopted, Feb. 1841.** N. Y., 1841. 8°. 62 p. [3]
 - **Manual of the system of discipline and instruction for the schools of New York.** N. Y., 1845. 8°. (74) p. Illus. and diagram. [3]
 - **School of Social Economics.** Circular of information, 1893-94. N. Y., [1893]. 8°. Illus. [3]
 - **Society for the Prevention of Cruelty to Children.** 18th annual report, 1892. N. Y., 1893. 8°. [3]
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 - **Union League Club.** Report of the committee on volunteering, Oct. 13, 1864. N. Y., 1864. 8°. 55 p. [3]
 - **Report of the special committee on emigration, May 12, 1864.** N. Y., 1864. 12°. 19, (2) p. [2]
 - **Union Meeting, Oct. 30, 1850.** Proceedings; appended, Washington's farewell address, Sept. 17, 1796. N. Y., 1850. 8°. 62 p. [1]
 - **Union Meeting, Dec. 15, 1860.** Proceedings. An appeal to the South. N. Y., 1860. 8°. 36, (1) p. [1]
 - **Washington Centennial Celebration, April 29—May 1, 1889.** Centennial celebration of the inauguration of George Washington, etc. [Card of admission to steamer "Sirius." N. Y., 1889.] [3]
 - **See also, back, Committee on the Centennial of Washington's Inauguration.**
 - **Young Men's Christian Association.** 40th annual report, Jan. 1893. N. Y., 1893. 8°. Illus. [3]
- New York, State. Agricultural Experiment Station, Geneva.** [Account of experimental work carried on during the past year, Jan. 21, 1892.] *n.t.p.* [1892.] 8°. (3) p. [3]

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- 10th annual report of the Board of Control, 1891. Albany, 1892. 8°. Plates. [3]
- Bulletin no. 42-58. New series. May 1892—July 1893. Geneva, [1892-93]. 8°. [3]
- *Astor Library*. 43d-44th annual report of the trustees, 1891-92. Albany, 1892-93. 8°. [3]
- *Board of Mediation and Arbitration*. 5th annual report, [1891]. Albany, 1892. 8°. [3]
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- *Civil Service Commission*. 8th report, Jan. 1891. Albany, 1891. 8°. [4]
- *Commissioners of the State Reservation at Niagara*. 9th annual report, 1892. Albany, 1893. 8°. [3]
- *Constitutional Convention*, 1867. Reply to the communication of the Regents of the University in answer to petition, etc. *h.t.p.* [N. Y., 1867.] 8°. 16 p. [3]
- *Court of Appeals*. Reports of cases not reported in the official series, April 1890—Nov. 1892. With notes by W. H. Silvernail. Vol. 3-4. N. Y., 1892-93. 2 v. 8°. [1]
- Reports of cases, May 31, 1892—Oct. 3, 1893. By H. E. Sickels. [Vol. 89-93. New York reports], v. 134-138. Albany, 1892-93. 5 v. 8°. [2]
- Vol. 89, entitled "Reports of cases in the Court of Appeals, 2d division."
- *Courts*. The miscellaneous reports. Cases decided in the inferior courts of record in the state of New York, including the Superior Court, the Court of Common Pleas of the city of New York, Superior Court of Buffalo, City Court of Brooklyn, City Court of New York, Surrogates' Courts, etc. F. B. Delehanty, reporter. Vol. 1-3. [Oct. 1892—May 1893.] Albany, 1893. 3 v. 8°. [1]
- See Abbott, A. Digest of statutes and reports, 1892-93, — New cases, v. 28-29; — Browne, H. H. Civil procedure reports, v. 22.
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- Vol. 8. Hall, J., and Clarke, J. M. An introduction to the study of the genera of palaeozoic brachiopoda, part 1.
- *Governor*. Annual message [of D. B. Hill], transmitted to the Legislature, Jan. 6, 1891. Albany, 1891. 8°. 29 p. [4]
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- Documents of the Senate, 114th session, 1891. Albany, 1891-92. 9 v. in 15. 8°. [2]
- Journal of the Assembly, 114th session, 1891. Albany, 1891. 2 v. 8°. [2]
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- *State Agricultural Society*. Transactions, with an abstract of proceedings of county agricultural societies. Vol. 21. 1861. Albany, 1862. 8°. [3, *Estate of the Hon. George B. Loring*.]
- *State Board of Managers for the World's Columbian Exposition*. Educational exhibit. Circular 1, 5. *n.t.p.* [Albany, 1892.] 1. 8°. 4 p.; 18 p. [3]
- *State Commission in Lunacy*. 3d annual report, 1891. Albany, 1892. 8°. [3]
- *State Library*. Bulletin. Legislation no. 3. Jan. 1893. Comparative summary and index of state legislation in 1892. Albany, 1893. 8°. [3]
- *State Normal and Training School, Plattsburgh, N. Y.* [Prospectus.] *h.t.p.* [1893.] obl. 24°. (18) p. Illus. [3]
- *State Reformatory at Elmira*. 15th annual report of the board of managers, Sept. 30, 1890. With an illustrated appendix. [Elmira, 1890.] 8°. [2]
- 17th year book, containing the annual report, Sept. 30, 1892. [Elmira], 1893. 8°. [3]
- *Supreme Court*. Reports of cases. M. T. Hun, reporter. Vol. 72-76. 1892-93. Hun, 65-69. N. Y., [1892-93]. 5 v. 8°. [1]
- Reports of cases not reported in the official series, June-[Dec.] 1889. With notes by W. H. Silvermail. Vol. 3-4. N. Y., 1893. 2 v. 8°. [1]
- *Utica State Hospital*. 50th annual report of the managers, Sept. 30, 1892. Albany, 1893. 8°. [3]
- New York and New England Railroad Company**. 17th annual report to the stockholders, March 14, 1893. N. Y., 1893. 8°. [3]
- New York Association for the Protection of American Industry**. Document no. 3. Effect of free trade on the laboring classes in England, Turkey and Egypt. By Cyrus Hamlin. [N. Y., 1883.] 8°. 21. (2) p. [2]
- Proceedings of the great mass meeting, Feb. 1, 1883. Document no. 2. *h.t.p.* [N. Y., 1883.] 8°. 70 p. [2]
- New York Central and Hudson River Railroad Company**. 21st annual report of the board of directors for the nine months ending June 30, 1890. N. Y., 1890. 4°. Map. [3]
- New York Chamber of Commerce**. 123d annual banquet, Nov. 17, 1891. Speeches made on the occasion. N. Y., 1891. 8°. 55 p. [4]
- [New York] Evening Post. April 1892-June 1893. N. Y., 1892-93. 5 v. f°. [1]
- New York Genealogical and Biographical Record**. Vol. 10-23. 1879-92. N. Y., [1879-92]. 14 v. 8°. Portraits. [1]
- New York Harbor**. *See United States. Board of Engineers, U. S. Army.*
- New York, New Haven and Hartford Railroad Company**. *See Massachusetts. General Court;—Storey, M.*
- New York State Association of School Commissioners and Superintendents**. Report of the committee on correspondence on revising and consolidating into one system the two modes of supervision and administration in the state of New York. *n.p.*, [1879]. 8°. 62, (1) p. [3]
- New York State Reporter**. Ed. by W. S. Gibbons. Vol. 45-49. [1892-93.] Albany, 1892-93. 5 v. 8°. [1]
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- *Department of Lands and Survey*. Crown lands guide, no. 12. Canterbury district, Dec. 1892. Wellington, 1892. f°. 5 p. [1]
- *Same*. Hawke's Bay district. Wellington, 1892. f°. 8 p. [1]
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- - The crown lands of New Zealand; with instructions as to the mode of acquisition, tenures, etc. Wellington, 1892. 8°. 24 p. [3]
- *Registrar-General's Office.* The New Zealand official handbook, 1892. By E. J. von Dadelszen. Wellington, 1892. 8°. vi, (2), 361, (1) p. Folded map. [3]
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— *School Department.* Rules and regulations, 1848-49. Newburyport, 1848. 8°. 8 p. [3]

— *See Davis, H. P.; — Moody, W. H.*

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— The present status of electrolysis in the treatment of urethral strictures: with statistics of one hundred cases, 3d series. A paper read at the 2d annual meeting of the American Electro-Therapeutic Association, New York, Oct. 1892. Chicago, 1893. 12°. 11 p. [3, *Author.*]

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— Business directory and advertiser. Newport, 1870. 16°. 82, (1) p. [3]

— **Redwood Library Association.** Annual report of the directors, Sept. 26, 1860; 162d annual report of the directors, Aug. 17, 1892. Bost., 1860; Newport, 1892. 8°. [2, 3]

— **Trinity Church.** *See Mason, G. C.*

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— Report of joint special committee on a system of sewerage, 1890. Ordinance, Dec. 31, 1890. Hearing[s], March 2, 17, and April 6, 1891. Newton Upper Falls, 1891. 8°. (150) p. [3]

— *City Council.* Government and officers, [1893. Newton Upper Falls, 1893.] 24°. [3]

— *City Engineer.* Report of A. F. Noyes and E. A. Buss on plan for surface drainage, Dec. 12, 1892. Newton Upper Falls, 1893. 8°. 42 p. Folded maps. [3]

— *Commissioners for the Revision of the City Charter.* Report upon the question of a revised charter. Bost., 1881. 8°. 21 p. [3]

— - *Same.* Report of the minority. Bost., 1881. 8°. 31 p. [3]

- Newton, Mass.** *Commissioners for the Revision of the City Charter, continued.*
 — — *Same.* Report of the commissioners, 1888. Bost., 1888. 8°. 35 p. [3]
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 — *School Committee.* [Special] meeting, April 12, 1893. *n.t.p.* [Newton, 1893.] 8°. (4) p. [3]
 — **Central Congregational Church, Newtonville.** History, order for admission of members, *etc.* *n.t.p.* [Holliston, Mass., 1869.] 12°. 20 p. [2]
 — **Cottage-Hospital Corporation.** Report of the 13th annual meeting, Jan. 16, 1893, with the reports of officers, *etc.*, added, the annual report of the Newton Hospital Aid Association, Jan. 10, 1893. Newton, 1893. 8°. Illus. [3]
 — **Elliot Church.** Confession of faith, covenant and standing rules, with catalogue of officers and members. Bost., 1863. 12°. 33 p. [1]
 — **Sabbath School Union.** Quarter-centennial celebration, Elliot Church, Newton, Oct. 16, 1863. [Historical address, Marshall S. Rice.] Bost., 1863. 12°. 35 p. [1]
Newton Theological Institution. Sketch of its history and account of services at the dedication of the new building, Sept. 10, 1866, by a committee of the Board of Trustees. Bost., 1866. 8°. 54 p. Illus. [2]
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Nichols Academy, Dudley, Mass. Catalogue of officers and students, 1861-2, 57-8, 59-60, 62-3. Worcester, Webster, 1861-63. 8°, 12°. [3]
 — Memorial of graduation exercises, 1878, and alumni meeting; with address by A. J. Bartholomew, and poem by Clark Jillson. Webster, 1878. 8°. 32 p. [3]
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Nineteenth Century. Vol. 32. July-Dec. 1892. Lond., 1892. 1. 8°. [1]
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Nordhoff, Charles. America for free working-men: how slavery injures the free working man. N. Y., 1865. 8°. 39 p. [2]
Norfolk and Western Railroad Company. Reference book. [N. Y., 18—.] 12°. 94 p. Folded map and illus. [3]
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North Carolina. *Agricultural Experiment Station, Raleigh.* Bulletin, no. 74 b; 86 c, d; 87 a, b, c, e, f; 88 a, d; 89 b; 90 d; 91 a, c. Bulletin, no. 16, 32-44. Meteorological summary, Jan. 1891, May 1892—May 1893. [Raleigh, 1891-93.] 8°. Folded maps. [3]
 Bulletin no. 16 is of the Meteorological Division; called State Weather Service Division after no. 31, April, 1892.
 — — Bulletin, no. 87 d. Technical bulletin, no. 4. Nov. 26, 1892. [Raleigh, 1892.] 8°. [3]

North Carolina. *Agricultural Experiment Station, Raleigh, continued.*

- - *Climatology of North Carolina*, from records of 1820-92, including the 6th annual report of the North Carolina State Weather Service, *etc.*, for 1891. Raleigh, 1892. 8°. 184 p. Maps. [3]
- - *Meteorological Division*. 6th annual report, 1892. Raleigh, 1893. 8°. [3]
- *General Assembly*. Public laws and resolutions, 1893. Raleigh, 1893. 8°. [2]
- *Governor*. Biennial message of T. M. Holt to the General Assembly, session of 1893. Raleigh, 1893. 8°. 68 p. [4]
- - Inaugural address of Elias Carr, delivered in Raleigh, Jan. 18, 1893. Raleigh, 1893. 8°. 13 p. [4]
- *State Hospital, Morganton*. Report, Dec. 1890—Nov. 1892. Raleigh, 1893. 8°. [3]
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- - *Same*. 1st-26th, April 3—Sept. 26, 1893. Raleigh, 1893. f° sheet. [3]
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- *Supreme Court*. North Carolina reports. Vol. 110-111. Cases in the Supreme Court, Feb.—Sept. 1892. By T. F. Davidson. Vol. 19-20. Raleigh, 1892-93. 2 v. 8°. [2]
- - *See Womack, T. B.* North Carolina digest, 1866-91.

North Clear Creek Gold and Silver Mining Company. [Description, with letters, statements, *etc.*] *n.p.*, [186-]. 8°. 17 p. [2]**North Dakota. *Agricultural College*. 1st annual catalogue, May 1892. Fargo, [1892]. 8°. 52 p. [3]**

- - *Agricultural Experiment Station, Fargo*. 1st-2d annual report, Feb. 1891—Jan. 1892. Fargo, 1891-92. 8°. [3]
- - - Bulletin, no. 1-9. Jan. 1891—March 1893. Fargo, 1891-93. 8°. [3]
- *Commissioner of Agriculture and Labor*. 2d biennial report, Oct. 31, 1892. Bismarck, 1892. 8°. [3]
- *Department of Public Instruction*. Arbor Day circular, [1893]. *n.p.*, [Grand Forks, 1893]. 8°. 15 p. [3]
- - Pamphlet no. 1. E. Institute manual and note book, 1893. Bismarck, 1893. 8°. 18 p. [3]
- *Governor*. Inaugural address of A. H. Burke before the 2d Legislative Assembly, Jan. 7, 1891. Bismarck, 1891. 8°. 16 p. [4]
- - Inaugural address of E. C. D. Shortridge before the 3d Legislative Assembly, Jan. 8, 1893. Bismarck, 1893. 8°. 8 p. [4]
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- - Journal of the Senate, 3d Legislative Assembly, 1893. Bismarck, 1893. 8°. [2]
- - Laws, 3d session, 1893. Bismarck, 1893. 8°. [2]
- *Officers and Institutions*. Public documents for the fiscal period ending Oct. 31, 1892. Bismarck, 1892. 2 v. 8°. Diagram and folded sheets. [4]
- *State Library*. Report of the librarian, containing a catalogue of the volumes comprising the library, 1892. Bismarck, 1892. 8°. 26 p. [3]
- *Supreme Court*. Reports of cases, Jan. 1891—May 1892. R. D. Hoskins, reporter. Vol. 2. Bismarck, 1892. 8°. [2]
- *See United States. Weather Bureau.*

North Reading, Mass. Receipts and expenditures, 1854-55—55-56, and report of the superintending school committee. Bost., 1855-56. 8°. [3]

- Report [of] the committee "to make a final settlement with the town of Reading," March 1, 1854. *n.t.p.* [North Reading, 1854.] 12°. 4 p. [3]

North Sea. *See Great Britain. Parliament.*

- North-Western Provinces, India.** The N. W. Provinces and Oudh code. 3d ed. 1892. *See India. Legislative Department.*
- Northampton, Mass. Clarke Institution for Deaf Mutes.** Addresses at the 25th anniversary of the opening of the Institution, Northampton, Oct. 12, 1892. Northampton, 1893. 8°. 64 p. Illus. [3]
- 25th annual report, Aug. 31, 1892. Northampton, 1892. 8°. [4]
- Northampton and Easthampton Directory, 1891-92.** [Vol. 10.] The Price & Lee Co., compilers and publishers. Northampton, 1891. 8°. viii, 396 p. Folded map. [1]
- Northeastern Reporter.** Vol. 31-33. June 10, 1892—June 2, 1893. St. Paul, 1892-93. 3 v. 8°. [1]
- Northern Railroad Company.** 15th, 17th, 21st, 32d annual report of the directors, May 1860, 62, 66, 77. Bost., 1860-66; Concord, 1877. 8°. [3]
- Report of the engineer on the route surveyed between Concord, Franklin and the Connecticut River at Lebanon, N. H., 1844. Manchester, [N. H.], 1844. 8°. 16 p. Folded map. [2]
- Northern Railroad in New York.** The Northern Railroad in New York, with remarks on the Western trade. Bost., 1847. 8°. 31 p. [2]
- Northrop, Birdsey Grant.** The legal preventive of illiteracy. Reprinted, with additions, from the report of the Connecticut Board of Education, 1875. N. Y., 1878. 12°. 28 p. [4]
- Northwest.** *See* Roosevelt, T.
- Northwestern Reporter.** Vol. 52-54. May 28, 1892—May 20, 1893. St. Paul, 1892-93. 3 v. 1. 8°. [1]
- *See* National reporter system digests. Northwestern series, v. 1-2.
- Norton, Andrews.** *See* Ripley, G.
- Norway, Me. Village Corporation Fire Department.** Rules and regulations, July 14, 1851. Norway, 1852. 24°. 18 p. [1]
- Norwich and Worcester Railroad Company.** Statement of facts, June, 1841. N. Y., 1841. 8°. 17 p. [2]
- Nott, Charles C., and Hopkins, Archibald.** Cases decided in the Court of Claims, 1891-92, with abstracts of decisions of the Supreme Court in appealed cases, Oct. 1891—May 1892. Vol. 26. Wash., 1893. 8°. [1]
- Nott, Eliphalet.** Address to candidates for the baccalaureate in Union College at the anniversary commencement, 30 July, 1806. Camb., 1806. 8°. 16 p. [1]
- Nott, Samuel.** Memorial of Rev. Samuel Nott. [Hartford, 1869.] sm. 4°. 31 p. Portrait. [1]
- Slavery and the remedy; or, Principles and suggestions for a remedial code. 6th ed.; with a reply and appeal to European advisers. Bost., 1869. 8°. xliii, 6, 4-p. [2]
- Nova Scotia. Commissioner of Crown Lands.** Annual report, 1892. Halifax, 1893. 8°. [3]
- *Commissioner of Public Works and Mines.* Financial returns of expenditure and revenue, 1892. Halifax, 1893. 8°. [3]
- Report on public charities, 1892. *A.t.p.* [Halifax, 1893.] 8°. [3]
- *Hospital for the Insane, Halifax.* 35th annual report, 1892. Halifax, [1892]. 8°. [3]
- *Library Commissioners and Librarian.* Annual report, 1892. Halifax, 1893. 8°. [3]
- *Superintendent of Education.* Annual report on the public schools for the year ending 31st Oct. 1892. Halifax, 1893. 8°. [2]
- *Supreme Court.* Nova Scotia reports. Vol. 23. [1890-91.] Reported by Benjamin Russell and J. M. Geldert, Jr. Toronto, 1893. 8°. [1]
- *See* Fielding, W. S.; — United States. *Hydrographic Office.*
- Noyes, Daniel Temple.** *See* Dorchester, Mass. *Village Church.*
- Noyes, George F.** Address before the committee of the Senate on the subject of wharves and piers. N. Y., 1866. 8°. 19 p. [2]

- Noyes, George Rapall. The Gospel exhibited. A discourse before the Second Congregational Society in Brookfield, Nov. 7, 1831. Brookfield, 1831. 12°. 35 p. [1]
- Nuisances. See Wood, H. G.
- Nullification. See Loring, C. W.
- Nutshell, The. The system of American slavery "tested by Scripture." [Anon.] N. Y., 1862. 12°. 72 p. [2]
- Nutting, William. See Green, S. A.
- Nyassaland, Africa. See Great Britain. *Parliament.*

- Oates, William C. The Torrey bankruptcy bill. Speech in the House of Representatives, Jan. 26, 1893. [Wash., 1893.] 8°. 40 p. [3]
- Ober, Corolyn Faville, and Westover, Cynthia M. Manhattan, historic and artistic: a six days' tour of New York city. N. Y., [1892]. 12°. x, 232 p. Folded map and illus. [1]
- Ober, Frederick Albion. In the wake of Columbus. Adventures of the special commissioner sent by the World's Columbian Exposition to the West Indies. Illus. Bost., 1893. 8°. (15), 515, (8) p. Maps. [1]
- Oberlin College, Oberlin, Ohio. Catalogue of the officers and students, 1882-83. Chicago, 1882. 8°. [3]
- Obituaries. See Crosby, N.; — Eminent persons.
- Ocean. See Brooks, C. W.
- O'Connor, Charles. Opinion on the treasury agent system of cotton seizures in the South, also concurring opinion of W. M. Everts, Edwards Pierpont, and James T. Brady. N. Y., 1866. 8°. 41 p. [1]
- Odd Fellows. *Queches River Lodge No. 46, Woodstock, Vt.* Constitution, by-laws and rules. Athol, Mass., 1891. 16°. 28 p. [3]
- Ohio. *Agricultural Experiment Station.* Bulletin 42-47. Aug.-Dec. 1892. [Vol. 5, no. 5-10. 2d series.] Columbus, 1892; Norwalk, 1893. 8°. [3]

No. 47 contains the 11th annual report, 1892.

- *Circuit Court.* Reports of cases argued and determined, [1892]. Supplement to the Weekly Law Bulletin and Ohio Law Journal. Vol. 6. Columbus, [1892]. 8°. [1]
- *Constitutional Convention, 1850-51.* Report of the debates and proceedings of the convention for the revision of the constitution. J. V. Smith, official reporter. Columbus, 1861. 2 v. 8°. 751 p.; 897 p. [1]
- *General Assembly.* General and local acts and joint resolutions, 70th General Assembly, regular session, 1892. Vol. 89. Columbus, 1892. 1. 8°. [2]
- The new school law. An act to provide for the reorganization, supervision and maintenance of common schools, March 14, 1853. Also annual report of Secretary of State on the condition of common schools, 1852. *n.t.p.* [1853.] 8°. (24) p. [3]
- *Governor.* Annual message of J. E. Campbell [to the Legislature], Jan. 6, 1891. Columbus, 1891. 8°. 14 p. [4]
- *Meteorological Bureau.* 9th annual report, 1891. Columbus, 1892. 8°. [3]
- *State Board of Agriculture.* Condition of crops, July-Aug. 1892. Official report. In co-operation with the United States Weather Bureau. Columbus, 1892. 8°. Folded charts. [3]
- The report for July is entitled "Acreage and condition of wheat and condition of other crops and live stock."
- *State Commissioner of Common Schools.* 39th annual report, Aug. 31, 1892. Norwalk, 1892. 8°. [3]
- The schools of Ohio at the Centennial Exposition. Columbus, 1875. 8°. 28 p. [3]
- *Weather and Crop Service (subordinate to the United States Weather Bureau).* Report of the Weather and Crop Service in co-operation with the State Board of Agriculture for Aug. 1892—July 1893. Norwalk, 1892-93. 8°. Folded charts. [3]
- See Apthorp, H.

- Ohio Editorial Association.** Transactions, 1856-57. Columbus, 1857. 8°. 89 p. [3]
- Ohio State Archaeological and Historical Society.** 8th annual report to the governor, 1892. Norwalk, 1893. 8°. 28 p. [3]
- Synopsis of annual reports, Feb. 10, 1892—Feb. 19, 1893. *n.f.p.* [1893.] 8°. (4) p. [3]
- Ohio State Bar Association.** Reports, v. 13. Proceedings, annual meeting, July 1892. Constitution, by-laws, list of officers, *etc.* Akron, 1892. 8°. [3]
- Oklahoma.** *Agricultural and Mechanical College. Agricultural Experiment Station, Stillwater.* Bulletin, no. 3-6. June 1892—May 1893. Guthrie, 1892; Norman, 1893. 8°. [3]
- *Same.* Special bulletin, no. 1. Oct. 1892. Stillwater, 1892. f° sheet. [3]
- *Governor.* Message [of A. J. Seay] to 2d Legislative Assembly, Jan. 19, 1893. Guthrie, [1893]. 8°. 11 p. [4]
- *Report to the Secretary of the Interior*, 1892. Wash., 1892. 8°. [3]
- *Legislative Assembly.* The statutes of Oklahoma, 1893. Compiled under the direction of Robert Martin, by W. A. McCartney, J. H. Beatty, and J. M. Johnston. Guthrie, 1893. 1. 8°. xvi, 1338, (1) p. [1]
- *Superintendent of Public Instruction.* 1st biennial report, Dec. 1, 1893. Guthrie, 1893. 8°. 36 p. [3]
- *See United States. Congress.*
- Old Colony and Fall River Railroad Company.** 8th annual report of the directors to the stockholders, Jan. 1862. Bost., 1862. 8°. 10 p. [2]
- Old Colony Historical Society.** [Proceedings], annual meeting, Jan. 9, 1893; quarterly meeting, Aug. 8, 1893. *n.f.p.* [1893.] 8°. [3]
- Old Colony Railroad Company.** 28th annual report of the directors, Sept. 29, 1891. Bost., 1891. 8°. [3]
- Brief statement of facts in relation to the proposed railroad from Boston to Plymouth. Plymouth, 1844. 8°. 20 p. [2]
- Report of the committee for investigating the affairs of the company, appointed by the stockholders Dec. 26, 1849. [With the evidence.] Bost., 1850. 8°. 84, 165 p. Folded maps. [2]
- Old South leaflets.** 6th-8th series, 1888-90; 9th series, 1891, no. 1, 3, 5. Bost., 1888-[91]. 12°. [1]
- General series. No. 13. The ordinance of 1787. *n.f.p.* [Bost., 18—.] 12°. 12 p. [3]
- Old South lectures, *etc.*** *See* Mead, E. D.
- Olin, Chauncey C.** A complete record of the John Olin family, 1678-1893. [With reminiscences of the life of Chauncey C. Olin.] Indianapolis, 1893. 8°. 228, xvi p. Portraits. [1]
- The Olin souvenir. *n.f.p.* [1892.] 24°. 8, (1) p. Portrait and illus. [3]
- Olin family.** *See* Olin, C. C.
- Oilphint, Thomas J.** Digest of the decisions of the Supreme Court of Arkansas, 1885-92. Little Rock, 1892. 1. 8°. ii, (1), 395 p. [1]
- Lettered "Vol. 2."
- Oliver, Alexander.** A chronological table of, and general index to, the colonial statutes in force in New South Wales, contained in v. 1-2 of the ed. of the statutes published in 1879. Sydney, 1881. 8°. (2), cclxxiii p. [2]
- Olivet College, Olivet, Mich.** Catalogue of the officers and students, 1866-67, 69. Lansing, 1866-69. 8°. [3]
- *See* Morrison, N. J.
- Olmstead, Dwight H.** Lecture on the Protestant faith. N. Y., 1874. 12°. 70 p. [3]
- O'Malley, Edward Loughlin, and Harcastle, Henry.** Reports of the decisions of the judges for the trial of election petitions in Great Britain and Ireland, [1892-93]. By J. S. Sanders and A. P. P. Keep. Vol. 4. Lond., 1893. 8°. [1]

- Oneida Historical Society, Utica, N. Y.** Transactions. No. 5. 1889-92. Utica, 1892. 8°. Portraits. [3]
- Ontario. Agricultural College and Experimental Farm, Toronto.** 17th annual report, 1891. Toronto, 1892. 8°. Illus. [3]
- — Bulletin, 74, 79. June 1, 1892, Aug. 22, 1892. Toronto, [1892]. 8°. Illus. [3]
- *Court of Appeal.* Reports of cases, 1891-92. Vol. 19. Toronto, 1893. 8°. [1]
- *Department of Public Instruction for Upper Canada.* Catalogue of illustrated works, reward cards, etc., suitable for prizes in the public schools. Toronto, 1857. 8°. 32 p. [3]
- — Catalogue of maps, apparatus, charts, reference-books, etc., for sale at the educational depository. Toronto, 1863. 8°. 60 p. Illus. [3]
- General provisions of the law and rules and regulations for the establishment and maintenance of public school libraries, with explanatory remarks. Toronto, 1854. 12°. 39 p. Illus. [3]
- Proceedings at the ceremony of laying the chief corner stone of the normal and model schools and education offices, 2d July 1851, with an introductory sketch of the system of public elementary instruction. Toronto, 1851. 8°. 29 p. Illus. and folded sheet. [3]
- *Legislature.* Journals of the Legislative Assembly, 2d session, 7th Legislature, 1892. Vol. 25. [Toronto, 1892.] 8°. [2]
- — Sessional papers. Vol. 24, part 5-8, 2d session, 7th Legislature, 1892; v. 25, part 1-3, 5, 3d session, 7th Legislature, 1893. Toronto, 1892-93. 8 v. l. 8°. Folded sheets and plates. [2]
- — Statutes, 3d session, 7th Legislature, 1893. Toronto, 1893. 8°. [2]
- *Minister of Education.* Report, 1892, with the statistics of 1891. Toronto, 1893. 1. 8°. [3]
- *Practice Court.* Ontario practice reports. By T. T. Rolfe. J. F. Smith, ed. Vol. 14. [1890-92.] Toronto, 1892. 8°. [1]
- Ontario, Lake.** See **United States.** *Commissioner of Fish and Fisheries.*
- Opium.** See **Friends, Society of.** *New England.*
- Oregon. Agricultural College, Experiment Station, Corvallis.** Bulletin no. 20-26. Sept. 1892—May 1893. Corvallis, 1892-93. 8°. [3]
- *Constitutional Convention, 1857.* Journal. Salem, 1882. 8°. 130 p. [1]
- *Governor.* Biennial message of Sylvester Pennoyer to the Legislative Assembly, 16th-17th regular session, 1891-93. Salem, 1891-93. 8°. [4]
- *Legislative Assembly.* General and special laws and joint resolutions and memorials, 17th regular session, 1893. Salem, 1893. 8°. [2]
- *Secretary of State.* Biennial report to the Legislative Assembly, 17th regular session, 1893. Salem, 1893. 8°. [3]
- *Superintendent of Public Instruction.* Arbor Day [circular], April 14, 1893. Salem, 1893. 8°. xv p. [3]
- — 10th biennial report, [1891-92]. Salem, 1893. 8°. [2]
- *Supreme Court.* Reports of cases, May [1890—May 1892]. G. H. Burnett, reporter. Vol. 21-22. Salem, 1892. 2 v. 8°. [2]
- See Thayer, E.; — Winthrop, R. C.
- Orizaba, Mt., Mexico.** See **United States.** *National Museum.*
- Ormsby family.** See Page, O. O.
- Osgood, David.** The signal advantages derived to the nations of christendom from their religion. Discourse before the annual Convention of Congregational Ministers of Massachusetts, Boston, May 31, 1798. Bost., 1798. 8°. 32 p. [1]
- Oswego, N. Y. Board of Education.** 16th annual report, Feb. 20, 1869. Oswego, 1869. 8°. 113 p. [3]
- Otis, William Foster.** The reviewer reviewed. Defence of an oration before the young men of Boston, 4th July, 1831. Bost., 1831. 8°. 29 p. [1]
- See Review of an oration, etc.
- Oudh, India.** The N.-W. Provinces and Oudh code. 3d ed. 1892. See **India.** *Legislative Department.*

- Our Dumb Animals.** Vol. 22-25. June 1889—Dec. 1892. [Bost., 1889-92.] 4 v. in 1. 4°. Illus. [3]
- Owls.** *See United States. Department of Agriculture.*
- Oxford University, Eng.** Oxford University Gazette. May 10, 1892, May 9, 1893. Supplement to no. 739, 770. Annual report of the curators of the Bodleian Library, [1891-92]. *n.t.p.* [Oxford, 1892-93.] f°. [3]
- Oyster.** *See United States. Commission of Fish and Fisheries;— Virginia. Governor.*
- Pacific Cable Company.** *See United States. Congress.*
- Pacific Guano Company.** History, products and trade, etc. Camb., 1876. 8°. 61 p. Maps and illus. [3]
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- Pacific Railroad.** *See Poor, H. V.;— Rice, W. W.*
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- 24. Import duties of Venezuela.
- 27. Import duties of the British possessions in the West Indies and Spanish America.
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- 40. Mines and mining laws of Latin America.
- 41. Commercial information concerning the American republics and colonies, 1891.
- 42. Newspaper directory of Latin America.
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- 45. Import duties of Peru.
- 46. Import duties of Chile.
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Bureau of Equipment.

- The American Ephemeris and Nautical Almanac, 1896. 1st ed. Wash., 1893. 1. 8°. Maps. [3]
- Electricity on board naval vessels. By J. J. Blandin. Wash., 1892. 8°. (30) p. Illus. [3]

Chap. 5, General information series, No. 11, Office of Naval Intelligence.

- Report to the Secretary of the Navy, 1892. Wash., 1892. 8°. [3]

Bureau of Ethnology.

- Bibliography of the Athapascan languages. By J. C. Pilling. Wash., 1892. 8°. xiii, 125 p. [3]

Bureau of Immigration.

- Annual report of the Superintendent of Immigration to the Secretary of the Treasury for the fiscal year ended June 30, 1892. Wash., 1892. 8°. [3]

Bureau of Medicine and Surgery.

- Report of the Chief of the Bureau to the Secretary of the Navy, 1892. Wash., 1892. 8°. [3]

Bureau of the Mint.

- Annual report of the Director, June 30, 1868, 92. Phila., 1868; Wash., 1892. 8°. [1, 3]
- Report of the Director upon the production of the precious metals in the United States during the calendar year 1892. Wash., 1893. 8°. [3]
- Table exhibiting approximately the stock of money in the aggregate and per capita in the principal countries in the world. *n.t.p.* [Wash., 1892.] 8°. 2 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 164.) [3]

Bureau of Navigation, Navy Department.

- Report of the Chief of the Bureau to the Secretary of the Navy, 1892. Wash., 1892. 8°. [3]

Bureau of Navigation, Treasury Department.

- 24th annual list of the merchant vessels of the United States, June 30, 1892. Wash., 1892. 4°. Illus. [3]
- Report of the Commissioner of Navigation, 1891-92. Wash., 1893. 8°. [3]

Bureau of Statistics.

- Annual report and statements of the Chief of the Bureau on the foreign commerce and navigation, immigration and tonnage, June 30, 1890, 92. Wash., 1891-93. 2 v. 8°. [3]
- Commerce of the United States with American countries, 1891. Embracing the miscellaneous portion of Quarterly report no. 1, 1891-92. Wash., 1892. 8°. 207 p. [3]
- Commerce of the United States with the Hawaiian Islands, 1871-92. Wash., 1893. 8°. 56 p. [3]
- Exports of broadstuffs, Sept. 1892—June 1893. [Wash., 1892-93.] Broad-sides. [3]
- Exports of mineral oils and cotton, Sept. 1892—June 1893. [Wash., 1892-93.] Broad-sides. [3]
- Exports of the principal articles of domestic provisions, Sept. 1892—June 1893. [Wash., 1892-93.] Broad-sides. [3]
- Quarterly reports of the Chief of the Bureau relative to the imports, exports, immigration, and navigation of the United States for the year ending June 30, 1892. Wash., 1893. 8°. [3]

United States. Bureau of Statistics, continued.

- Report on the internal commerce of the United States, 1891. Part 2 of commerce and navigation; the commerce of the Great Lakes, the Mississippi River and its tributaries. [By] S. G. Brock. Wash., 1892. 8°. Folded map. [3]
- Statement of foreign commerce and immigration, Sept. 1892—June 1893. *n.t.p.* [Wash., 1892-93.] 8°. [3]
- Statistical abstract of the United States. 1892. 15th number. Wash., 1893. 8°. [3]
- Summary statement of the imports and exports of the United States. [No. 1-12.] July 1892—June 1893. [Wash., 1892-93.] 4°. [3]

Bureau of Steam Engineering.

- Annual report of the Chief of the Bureau, 1892. Wash., 1892. 8°. [3]

Bureau of Supplies and Accounts.

- Report of the Paymaster-General of the Navy, 1892. Wash., 1892. 8°. [3]

Bureau of Yards and Docks.

- Annual report of the Chief of the Bureau, June 30, 1892, and estimates for the fiscal year ending June 30, 1894. Wash., 1893. 8°. [3]
- History of the United States Navy-Yard, Portsmouth, N. H. By G. H. Preble. Wash., 1892. 8°. 219 p. Folded map. [3]

Census Office.

- A permanent census bureau. Letter from the Secretary of the Interior transmitting a report of the superintendent of the census, with the draft of a bill. Wash., 1891. 8°. iv, 185 p. (52d Cong. 1st sess. Sen. doc., no. 1.) [3]
- See also, forward, Congress, — *Department of the Interior.*

(11th census, 1890.)

- Census bulletin. No. 110-111, 207-328, 330-377. Sept. 3-4, 1891, Sept. 26—Dec. 7, 1892, Dec. 15, 1892—May 15, 1893. *n.t.p.* [Wash., 1891-93.] 4°. [3]
- Compendium of the 11th census. Part 1. Population. Wash., 1892. f°. cxi, 957 p. Maps, diagrams and charts. [3]
- Extra census bulletin. No. 24, 26-28, 30-55. Nov. 10—Dec. 5, 1892, Jan. 24—Aug. 31, 1893. *n.t.p.* [Wash., 1892-93.] 4°. [3]
- Indians. Eastern band of Cherokees of North Carolina. By Thomas Donaldson. Wash., 1892. 4°. 24 p. Portrait, folded map and illus. [3]
- Indians. The six nations of New York; Cayugas, Mohawks, Oneidas, etc. By Thomas Donaldson. Wash., 1892. 4°. vii, 89 p. Portraits, folded maps and illus. [3]
- Index to bulletins. Corrected to April 1, 1893. *n.t.p.* [Wash., 1893.] 8°. 16 p. [3]
- Report on mineral industries in the United States, 1890. D. T. Day, special agent. Wash., 1892. 4°. xvi, 858 p. Maps, diagrams and illus. [3]
- Report on population and resources of Alaska. Wash., 1893. 4°. xi, 282 p. Map and illus. (52d Cong. 1st sess. Miscel. doc., no. 340, part 7.) [3]
- Report on transportation business in the United States, 1890. The Great Lakes. H. C. Adams, special agent. Wash., 1892. 4°. vii, 162 p. [3]
- Same. Rivers of the Mississippi Valley. Wash., 1892. 4°. vii, 81 p. [3]
- Same. Street railways. Wash., 1892. 4°. vii, 195 p. [3]
- Report on wealth, debt and taxation, 1890. Part 1. Public debt. J. K. Upton, special agent. Wash., 1892. 4°. xi, 890 p. Map and diagrams. [3]

Circuit Courts of Appeals.

- United States Courts of Appeals Reports. Vol. 1, 4. S. A. Blatchford, reporter. N. Y., 1893. 2 v. 8°. [1]

Contents.

Vol. 1. Cases adjudged in the Circuit Court of Appeals for the 2d circuit, 1891-92. Vol. 1.]
4. — Same. 8th circuit, 1891-92. Vol. 1.]

Civil Service Commission.

- 9th report, July 1, 1891—June 30, 1892, also civil list. Wash., 1893. 8°. Folded map and illus. [3]

United States, *continued.**Coast and Geodetic Survey.*

- Astronomy. Culminations and elongations and azimuths at elongation of Polaris, 1889-1910. Prepared by C. A. Schott. Appendix no. 1, Report for 1891. Wash., 1892. 8°. (9) p. [3]
- The transit of Mercury, May 9, 1891, as observed at Waikiki, Hawaiian Islands. By E. D. Preston. Appendix no. 12, Report for 1891. Wash., 1892. 8°. (3) p. [3]
- Bibliography. Descriptive catalogue of publications relating to the U. S. Coast and Geodetic Survey, 1807-90, and to U. S. standard weights and measures, 1790-1890. Compiled by Edward Goodfellow, [and others]. Appendix no. 11, Report for 1891. Wash., 1892. 8°. (108) p. [3]
- Geodesy. Azimuth determinations by micrometric measurements on a close circumpolar star. Report by C. A. Schott, observations by A. T. Mosman. Appendix no. 2, Report for 1891. Wash., 1892. 8°. (7) p. [3]
- Notice to mariners. No. 137-162 Jan. 1891-Dec. 1892. [Including indexes to chart corrections for 1891-92.] Coast of the United States. *n.t.p.* [1891-92.] 4° sheets. [3]
- Physical hydrography. Cross-sections of the shore of Cape Cod between the Cape Cod and Long Point light-houses. Report by H. L. Marindin. Appendix no. 9, Report for 1891. Wash., 1892. 8°. (56) p. [3]
- Terrestrial magnetism. On the magnetic observations of Vitus Ivanovich Bering on the coasts of northeastern Asia during his first expedition, 1725-30. Discussion by C. A. Schott, based upon a record communicated by Dr. W. H. Dall, U. S. National Museum. Appendix no. 5, Report for 1891. Wash., 1892. 8°. (7) p. [3]
- On the secular variation and annual change of the magnetic force at stations on the west coast of Africa and at some islands in the N. and S. Atlantic. Discussion and report by C. A. Schott, observations by E. D. Preston. Appendix no. 3, Report for 1891. Wash., 1892. 8°. (21) p. [3]
- Tide tables for the Atlantic coast of the United States for the year 1894. Wash., 1893. 1. 8°. [3]
- Tide tables for the Pacific coast of the United States, 1891-94. Wash., 1890-93. 1. 8° and 12°. [3]

Commissary-General of Subsistence.

- Annual report to the Secretary of War, June 30, 1892. Wash., 1892. 8°. [3]

Commission of Fish and Fisheries.

- The anatomy of *thysanocephalum crispum*, Linton, a parasite of the tiger shark. By Edwin Linton. Wash., 1891. 8°. (15) p. Plates. [3]
- Bulletin. Vol. 10. 1890. Wash., 1892. 1. 8°. Folded maps and plates. [3]
- Description of a new sucker, *pantosteus Jordanii*, from the Upper Missouri basin. By B. W. Evermann. Wash., 1893. 1. 8°. (8) p. Illus. [3]
- Letter from M. McDonald, Commissioner, upon the natural history of the menhaden and mackerel, with notes on the fisheries. *n.t.p.* [Wash., 1892.] 8°. 14 p. Folded diagram. (52d Cong. 1st sess. Sen. miscel. doc., no. 156.) [3]
- Notes on a collection of fishes from the southern tributaries of the Cumberland River in Kentucky and Tennessee. By P. H. Kirsch. Wash., 1893. 1. 8°. (12) p. [3]
- Notes on entozoa of marine fishes, with descriptions of new species. Part 2-3. By Edwin Linton. Wash., 1890-91. 8°. Plates. [3]
- Notes on fishes from the lower Potomac River. By H. M. Smith. Wash., 1892. 1. 8°. (11) p. Plates. [3]
- Observations on the hatching of the yellow perch. By S. G. Worth. Wash., 1892. 1. 8°. (4) p. Plate. [3]
- Observations on the spawning habits of the shad. By S. G. Worth. Wash., 1893. 1. 8°. (8) p. [3]

United States. Commission of Fish and Fisheries, continued.

- Observations upon fishes and fish culture. [By T. H. Bean.] Wash., 1892. 1. 8°. (14) p. [3]
- On the classification of the myxosporidia, a group of protozoan parasites infesting fishes. By R. R. Gurley. Wash., 1893. 1. 8°. (16) p. [3]
- A preliminary report on the aquatic invertebrate fauna of the Yellowstone National Park, Wyoming, and of the Flathead region of Montana. By S. A. Forbes. Wash., 1893. 1. 8°. (53) p. Plates. [3]
- Report of an examination of the rivers of Kentucky, with lists of the fishes obtained. By A. J. Woolman. Wash., 1892. f°. (41) p. Plate. [3]
- Report of operations at the laboratory of the Commission, Wood's Holl, Mass., 1888. By J. A. Ryder. Wash., 1891. 8°. (11) p. [3]
- Report of the Commissioner, 1888-91. [Part 16-17.] Wash., 1892-93. 2 v. 8°. [3]
- Report on a collection of fishes from the Albemarle region of North Carolina. By H. M. Smith. Wash., 1893. 1. 8°. (18) p. [3]
- Report on the European methods of oyster-culture. By Bashford Dean. Wash., 1893. 1. 8°. (52) p. Illus. and plates. [3]
- Report on the fisheries of Lake Ontario. By H. M. Smith. Wash., 1892. f°. (40) p. Plates. [3]
- Report on the fisheries of the Gulf states. By J. W. Collins and H. M. Smith. Wash., 1892. 1. 8°. (96), ii p. [3]
- Report on the fisheries of the New England states. By J. W. Collins and H. M. Smith. Wash., 1892. 1. 8°. (105) p. [3]
- Report on the fisheries of the South Atlantic states. By H. M. Smith. Wash., 1893. 1. 8°. (90) p. Plates. [3]
- Report on the investigations of the Albatross, June 30, 1889. By Z. L. Tanner. Wash., 1891. 8°. Folded sheet and plates. [3]
- Report relative to the salmon fisheries of Alaska. [By Marshall McDonald, with Bibliography of the salmonidæ of Alaska and adjacent regions. By T. H. Bean.] Wash., 1892. 1. 8°. 51 p. Illus. (52d Cong. 1st sess. Sen. miscel. doc., no. 192.) [3]
- Report respecting the establishment of fish-cultural stations in the Rocky Mountain regions and Gulf states. [By B. W. Evermann.] Wash., 1892. 1. 8°. iv, 88 p. Folded maps, plates and illus. [3]
- Report upon the fishes of Iowa, based upon observations and collections made during 1889-91. By S. E. Meek. Wash., 1892. f°. (33) p. [3]
- Report upon the rivers of central Florida tributary to the Gulf of Mexico, with lists of fishes inhabiting them. By A. J. Woolman. Wash., 1892. f°. (11) p. Plates. [3]
- A review of the centrarchidæ, or fresh-water sunfishes of North America. By C. H. Bollman. Wash., 1891. 8°. (25) p. Plates. [3]
- Statistical review of the coast fisheries of the United States. Prepared under the direction of J. W. Collins. Wash., 1891. 8°. (109) p. [4]
- See United States. Congress.

Commissioner of Customs.

- Annual report to the Secretary of the Treasury, June 30, 1892. Wash., 1892. 8°. [3]

Commissioner of the Freedman's Savings and Trust Company.

- Annual report of the Commissioner, 1892. Wash., 1892. 8°. [3]

Commissioner of Railroads.

- Report to the Secretary of the Interior, 1892. Wash., 1892. 8°. [3]

Commissioners of Claims.

- See Holloway, J. B., and French, W. H.

United States, *continued.**Commissioners on Immigration.*

- Letter from the Secretary of the Treasury transmitting a report of the Commissioners upon the causes which incite immigration to the United States. Wash., 1892. 2 v. 8°. (1), 331 p.; 115 p. (52d Cong. 1st sess. Exec. doc., no. 235, part 1-2.) [3]

Contents.

- Vol. 1. Reports of Commissioners.
- 2. Extracts from European laws. Letters of U. S. Consuls.

Commissioners to the Universal Exposition of 1889, at Paris.

- Reports. Wash., 1890-91. 5 v. 8°. Plans and illus. [3]

Comptroller of the Currency.

- Report, 1869; Annual report, 1873, 92, [v. 1]. Wash., 1869-92. 3 v. 8°. [1]
- *Same.* 1892. 3d ed. Wash., 1892. 2 v. 8°. [3]

Congress.

- Action concerning the Torrey bankruptcy bill by the Mobile Cotton Exchange, [and other boards of trade, etc.]. *n.t.p.* [Wash., 1892.] 8°. 28 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 182.) [3]
- Addresses on the presentation of the portraits of Speakers Grow and Randall, in the House of Representatives, [Jan. 21, 1892]. Wash., 1892. 1. 8°. 48 p. (52d Cong. 1st sess. House miscel. doc., no. 141.) [3]
- Admission of Arizona into the Union. Report [of] the committee on the territories. *n.t.p.* [Wash., 1891.] 8°. 30 p. (52d Cong. 1st sess. House report, no. 737.) [3]
- Admission of New Mexico. Report [of the committee on territories]. *n.t.p.* [Wash., 1892.] 8°. 45 p. (52d Cong. 1st sess. House report, no. 736.) [3]
- Alleged coal combination. Report [of the committee on interstate and foreign commerce on the alleged combination of the Philadelphia and Reading Railroad Company and other railroads]. *n.t.p.* [Wash., 1893.] 8°. ix, 261 p. (52d Cong. 2d sess. House report, no. 2278.) [3]
- Alleged illegal practices connected with the United States courts and abuse of judicial process [especially in the office of United States Commissioner Hallett in Boston]. Report [of the committee on the judiciary]. *n.t.p.* [Wash., 1892.] 8°. 250 p. (52d Cong. 1st sess. House report, no. 1966.) [3]
- American registry of ships built in foreign countries. Report [of the committee on merchant marine and fisheries]. *n.t.p.* [Wash., 1892.] 8°. 5 p. (52d Cong. 1st sess. House report, no. 966.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1892.] 8°. 12 p. (52d Cong. 1st sess. House report, no. 966, part 2.) [3]
- Appropriations, new offices, etc. Statements showing appropriations made during the 1st session, 52d Congress, new offices created, etc. Prepared by T. P. Cleaves and J. C. Courts. Wash., 1892. 1. 8°. 381 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 227.) [3]
- *Same.* 2d session, 52d Congress. Wash., 1893. 1. 8°. 343 p. (52d Cong. 2d sess. Sen. miscel. doc., no. 70.) [3]
- Assessment of taxes in the District of Columbia. Report [of] the select committee to investigate tax assessments, etc. *n.t.p.* [Wash., 1892.] 8°. 156 p. Folded map. [3]
- Bagging for cotton, etc. Report [of] the committee on ways and means on admitting free of duty bagging for cotton. *n.t.p.* [Wash., 1892.] 8°. 10 p. (52d Cong. 1st sess. House report, no. 503.) [3]
- Binding twine. Report [of the committee on ways and means relative to a bill to place binding twine on the free list]. *n.t.p.* [Wash., 1892.] 8°. 5 p. (52d Cong. 1st sess. House report, no. 502.) [3]
- A centennial fourth of July democratic celebration. The massacre of six colored citizens at Hamburg, S. C., July 4, 1876. Debate in the United States House of Representatives, July 15 and 18, 1876. *n.t.p.* [Wash., 1876.] 8°. 15 p. [3]

United States. Congress, continued.

- Charges respecting conduct of members on the floor of the House. Report [of the committee to investigate charges against members, chiefly against J. E. Cobb]. *n.t.p.* [Wash., 1892.] 8°. 102 p. (52d Cong. 1st sess. House report, no. 2132.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1892.] 8°. 4 p. (52d Cong. 1st sess. House report, no. 2132, part 2.) [3]
- Circulating promissory notes. Report [of the committee on banking and currency relative to the issue of circulating promissory notes by banks]. *n.t.p.* [Wash., 1893.] 8°. 14 p. (52d Cong. 2d sess. House report, no. 2584.) [3]
- The civil service. Report of [T. A.] Jenckes, from the joint select committee on retrenchment, made to the House of Representatives of the United States, May 14, 1868. Wash., 1868. 8°. vii, 219 p. (40th Cong. 2d sess. House report, no. 47.) [3, *Estate of George B. Loring.*]
- Condition of the Treasury. Report [of the committee on ways and means relative to the condition of the Treasury]. *n.t.p.* [Wash., 1893.] 8°. 84 p. (52d Cong. 2d sess. House report, no. 2621.) [3]
- Dealing in fictitious farm products. Report [of the committee on agriculture]. *n.t.p.* [Wash., 1892.] 8°. 14 p. (52d Cong. 1st sess. House report, no. 969.) [3]
- Decisions of Judge Speer, Judge Ricks and Judge Taft made in certain cases involving the rights and duties of railroad employes and construction of the anti-trust and interstate-commerce laws. *n.t.p.* [Wash., 1893.] 8°. 35 p. (53d Cong. Special session. Sen. miscel. doc., no. 47.) [3]
- Effect of the tariff upon agriculture. Report [of the committee on agriculture]. *n.t.p.* [Wash., 1892.] 8°. 33 p. (52d Cong. 1st sess. House report, no. 2114.) [3]
- Election of president and vice-president. Report [of select committee]. *n.t.p.* [Wash., 1893.] 8°. 14 p. (52d Cong. 2d sess. House report, no. 2439.) [3]
- Election of senators. Report [of the select committee on the election of president, vice-president, etc.]. *n.t.p.* [Wash., 1892.] 8°. 5 p. (52d Cong. 1st sess. House report, no. 368.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1892.] 8°. 3 p. (52d Cong. 1st sess. House report, no. 368, part 2.) [3]
- Report [of the committee on privileges and elections on the election of United States Senators]. *n.t.p.* [Wash., 1892.] 8°. 3 p. (52d Cong. 1st sess. Sen. report, no. 794, part 1.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1892.] 8°. 11 p. (52d Cong. 1st sess. Sen. report, no. 794, part 2.) [3]
- Free coinage of gold and silver bullion. Report [of the committee on coinage, weights and measures]. *n.t.p.* [Wash., 1892.] 8°. 2 p. (52d Cong. 1st sess. House report, no. 1839.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1892.] 8°. 6 p. (House report, no. 1839, part 2.) [3]
- Free coinage of gold and silver. [Report of] the committee on coinage, weights, and measures. *n.t.p.* [Wash., 1892.] 8°. 28 p. (52d Cong. 1st sess. House report, no. 249.) [3]
- French spoliation claims. Report [of the committee on claims, July 15, 1892]. *n.t.p.* [Wash., 1892.] 8°. 41 p. (52d Cong. 1st sess. House report, no. 1901.) [3]
- Report [of the committee on claims on the bill to pay the awards of the Court of Claims in the French spoliation cases]. *n.t.p.* [Wash., 1892.] 8°. 87 p. (52d Cong. 1st sess. Sen. report, no. 856.) [3]
- History of Senate bills and joint resolutions, 1st session, 52d Congress, arranged under the names of the senators introducing them. Wash., 1892. 1. 8°. iii, 94 p. [3]

United States. Congress, continued.

- Hours of labor for mechanics and laborers. Report [of the committee on labor]. *n.t.p.* [Wash., 1892.] 8°. 7 p. (52d Cong. 1st sess. House report, no. 1267.) [3]
- Report [of the committee on education and labor on the adjustment and payment of accounts of laborers and mechanics arising under the eight-hour law]. *n.t.p.* [Wash., 1892.] 8°. 17 p. (52d Cong. 1st sess. Sen. report, no. 245.) [3]
- Report [of the committee on education and labor on the eight-hour law]. *n.t.p.* [Wash., 1892.] 8°. 2 p. (52d Cong. 1st sess. Sen. report, no. 948.) [3]
- Immigration investigation. [Report of] the committee on immigration and naturalization. *n.t.p.* [Wash., 1892.] 8°. xxxii, 798 p. Folded plan and sheet. (52d Cong. 1st sess. House report, no. 2090.) [3]
- Investigation of election laws. Report [of the select committee to inquire into the supervision and administration of election laws by officers of the United States, in the city, county and state of New York, so far as the same relate to members of Congress]. *n.t.p.* [Wash., 1893.] 8°. 102 p. (52d Cong. 2d sess. House report, no. 2365.) [3]
- Investigation of the Census Bureau. Report [of the select committee on the 11th Census]. *n.t.p.* [Wash., 1892.] 8°. 180 p. (52d Cong. 1st sess. House report, no. 1933.) [3]
- Investigation of the employment of Pinkerton detectives in connection with the labor troubles at Homestead, Pa. Wash., 1892. 8°. 247 p. (52d Cong. 1st sess. House miscel. doc., no. 335.) [3]
- The Lecompton constitution. House of Representatives, March 10, 1858. [Report from the select committee of fifteen.] *n.t.p.* [Wash., 1858.] 8°. 16 p. [3]
- Life-Saving Service. Report [of the committee on interstate and foreign commerce]. *n.t.p.* [Wash., 1892.] 8°. 13 p. (52d Cong. 1st sess. House report, no. 508.) [3]
- Local government for the territory of Utah. Report [of the committee on the territories]. *n.t.p.* [Wash., 1892.] 8°. 28 p. (52d Cong. 1st sess. House report, no. 943.) [3]
- Memorial addresses on the life and character of Alexander K. Craig, in the House of Representatives and Senate, [Feb. 3, 1893]. Wash., 1893. 1. 8°. 44 p. Portrait. (52d Cong. 2d sess. House miscel. doc., no. 97.) [3]
- Memorial addresses on the life and character of Ephraim King Willson, in the Senate and House of Representatives, May 6 and July 2, 1892. Wash., 1893. 1. 8°. 89 p. Portrait. (52d Cong. 1st sess. Sen. miscel. doc., no. 229.) [3]
- Memorial addresses on the life and character of Francis B. Spinola, in the House of Representatives, [March 26], and in the Senate, [Feb. 25, 1892]. Wash., 1893. 1. 8°. 50 p. Portrait. (52d Cong. 2d sess. House miscel. doc., no. 102.) [3]
- Memorial addresses on the life and character of John R. Gamble, delivered in the House of Representatives and in the Senate, [April 15 and 20, 1892]. Wash., 1893. 1. 8°. 66 p. Portrait. (52d Cong. 2d sess. House miscel. doc., no. 99.) [3]
- Memorial addresses on the life and character of Leonidas Campbell Houk, in the House of Representatives and in the Senate, Jan. 30 and Feb. 9, 1892. Wash., 1892. 1. 8°. 118 p. Portrait. (52d Cong. 1st sess. House miscel. doc., no. 234.) [3]
- Memorial addresses on the life and character of Preston B. Plumb, in the Senate and House of Representatives, Feb. 20 and March 19, 1892. Prepared by W. H. Michael. Wash., 1892. 1. 8°. 184 p. Portrait. (52d Cong. 1st sess. Sen. miscel. doc., no. 228.) [3]
- Memorial addresses on the life and character of Richard W. Townshend, in the House of Representatives, [Feb. 15], and in the Senate, [March 14, 1890]. Wash., 1890. 1. 8°. 66 p. Portrait. (51st Cong. 1st sess. House miscel. doc., no. 262.) [3]

United States. Congress, continued.

- Memorial addresses on the life and character of William H. F. Lee, delivered in the House of Representatives and in the Senate, [Dec 23, 1891]. Wash., 1892. 1. 8°. 107 p. Portrait. (52d Cong. 1st sess. House miscel. doc., no. 320.) [3]
- Memorial in regard to a national university. By J. W. Hoyt. Wash., 1892. 8°. 123 p. [3]
- Memorial of John Cowdon on matters pertaining to the improvement of the Mississippi River and its tributaries, and stopping the overflow of their valley lands. *n.t.p.* [Wash., 1893.] 8°. 52 p. Map, folded diagram. (52d Cong. 2d sess. Sen. miscel. doc., no. 38.) [3]
- Mississippi River Commission. Memorial showing not only the utter worthlessness but the absurdity of the work of the Commission. *n.t.p.* [Wash., 1892.] 8°. 13 p. (52d Cong. 1st sess. House miscel. doc., no. 188) [3]
- National banks. Report [of the committee on banking and currency on the causes of the failure of the Keystone and Spring Garden National Banks of Philadelphia and the Maverick Bank of Boston]. *n.t.p.* [Wash., 1893.] 8°. 512 p. (52d Cong. 2d sess. House report, no. 2342.) [3]
- Report of the committee on failed national banks, [the Maverick National Bank of Boston and the Keystone and Spring Garden National Banks of Philadelphia]. Wash., 1892. 8°. xxxiii, 466 p. (52d Cong. 2d sess. Sen. report, no. 1286.) [3]
- The new and complete tax-payer's manual: containing the direct and excise taxes; with the recent amendments by Congress, and decisions of the Commissioner, *etc.* [With the direct tax law, passed Aug. 5, 1861], *etc.* N. Y., 1863. 8°. iv, 148, 36 p. [3]
- Obituary addresses on the death of the Hon. John C. Calhoun, in the Senate of the United States, April 1, 1850, with the funeral sermon of Rev. C. M. Butler, April 2, 1850. Wash., 1850. 8°. 39 p. [3]
- Official congressional directory, [52d Congress, 2d session]. By W. H. Michael. 2d ed. Wash., 1893. 8°. Maps, diagrams and illus. [3]
- *Same.* [53d Congress, 1st session.] By F. M. Cox. Special ed. Corrected to Aug. 7, 1893. Wash., 1893. 8°. Maps. [3]
- *Same.* [53d Congress, extraordinary session.] By W. H. Michael and F. M. Cox. Special ed. Wash., 1893. 8°. Maps and illus. [3]
- Pacific Cable Company. Report [of the committee on foreign affairs. *n.t.p.* [Wash., 1891.] 8°. 13 p. (51st Cong. 2d sess. House report, no. 3774.) [3]
- Paper currency of East India. *n.t.p.* [Wash., 1892.] 8°. 12 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 205.) [3]
- Partial report [of the committee on finance on the effects of the tariff upon the trade between the United States and Canada]. *n.t.p.* [Wash., 1892.] 8°. 83 p. (52d Cong. 1st sess. Sen. report, no. 619.) [3]
- *Same.* Report, as a substitute for report no. 619. *n.t.p.* [Wash., 1892.] 8°. 95 p. (52d Cong. 1st sess. Sen. report, no. 788.) [3]
- Permanent census bureau. Report [of the select committee on the 11th census relative to the expediency of establishing a permanent bureau]. *n.t.p.* [Wash., 1893.] 8°. 110 p. (52d Cong. 2d sess. House report, no. 2393.) [3]
- Postal savings banks. Report [of the committee on the Post-Office and post-roads. *n.t.p.* [Wash., 1891.] 8°. 13 p. (51st Cong. 2d sess. House report, no. 4002.) [3]
- Records of the volunteer armies. Report [of the committee on military affairs]. *n.t.p.* [Wash., 1892.] 8°. 7 p. (52d Cong. 1st sess. House report, no. 895.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1892.] 8°. 2 p. (52d Cong. 1st sess. House report, no. 895, part 2.) [3]
- Regulating the fisheries. Report [of the committee on merchant marine and fisheries]. *n.t.p.* [Wash., 1893.] 8°. 6 p. (52d Cong. 1st sess. House report, no. 1350.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1893.] 8°. 69 p. (52d Cong. 2d sess. House report, no. 1350, part 2.) [3]

United States. Congress, continued.

- Report of a special committee, an address to Congress, and action by the National Board of Trade concerning the Torrey bankrupt bill; interviews, resolutions, etc. *n.t.p.* [Wash., 1892.] 8°. 14, 2 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 174.) [3]
- Report of committee on commerce on the bill making appropriations for the construction, repair and preservation of certain public works on rivers and harbors, etc., June 30, 1893. Wash., 1892. 8°. 422 p. (52d Cong. 1st sess. Sen. report, no. 666.) [3].
- Report [of the committee on agriculture and forestry on the establishment and protection of public forest reservations]. *n.t.p.* [Wash., 1892.] 8°. 12 p. (52d Cong. 1st sess. Sen. report, no. 1002.) [3]
- Report [of the committee on commerce on compulsory pilotage]. *n.t.p.* [Wash., 1892.] 8°. 52 p. (52d Cong. 1st sess. Sen. report, no. 395.) [3]
- Report [of the committee on foreign relations relative to the sums expended by the Maritime Canal Company, the Nicaragua Canal Construction Company or any company allied to either of said companies]. *n.t.p.* [Wash., 1893.] 8°. 42 p. (52d Cong. 2d sess. Sen. report, no. 1262.) [3]
- Report [of the committee on immigration and proceedings of the Cuba and Florida immigration investigation, the Senate committee on immigration, the Senate committee on epidemic diseases, etc. *n.t.p.* [Wash., 1893.] 8°. iii, 72 p. (52d Cong. 2d sess. Sen. report, no. 1263.) [3]
- Report of the committee on immigration, [with investigation on the proposition for the suspension of immigration for one year, etc.]. *n.t.p.* [Wash., 1893.] 8°. xvii, 279 p. (52d Cong. 2d sess. Sen. report, no. 1333.) [3]
- Report [of the committee on Indian affairs on extending the jurisdiction of the Supreme Court to the Indian tribal courts]. *n.t.p.* [Wash., 1892.] 8°. 66 p. (52d Cong. 1st sess. Sen. report, no. 281.) [3]
- Report [of the committee on Indian affairs on the relief of the Stockbridge and Munsee tribe of Indians in Wisconsin]. *n.t.p.* [Wash., 1892.] 8°. 58 p. (52d Cong. 1st sess. Sen. report, no. 1108.) [3]
- Report [of the committee on interstate commerce on the bill to compel common carriers to use automatic couplers and power brakes]. *n.t.p.* [Wash., 1892.] 8°. 112 p. (52d Cong. 1st sess. Sen. report, no. 1049.) [3]
- Report of the committee on manufactures on the sweating system. Wash., 1893. 8°. (4), xxix, 269 p. (52d Cong. 2d sess. House report, no. 2309.) [3]
- Report [of the committee on mines and mining on the cost of production of gold and silver bullion in the United States]. *n.t.p.* [Wash., 1893.] 8°. 82 p. (52d Cong. 2d sess. Sen. report, no. 1310.) [3]
- Report [of the committee on public buildings and grounds on the examination of the sanitary condition of the Capitol]. *n.t.p.* [Wash., 1892.] 8°. 44 p. Illus. (52d Cong. 1st sess. Sen. report, no. 880.) [3]
- Report [of the committee on territories on the admission of New Mexico]. *n.t.p.* [Wash., 1892.] 8°. 28 p. (52d Cong. 1st sess. Sen. report, no. 1023.) [3]
- Report [of the committee on the judiciary on the bill relating to "options" and "futures"]. *n.t.p.* [Wash., 1892.] 8°. 2 p. (52d Cong. 1st sess. Sen. report, no. 893 and part 2-3.) [3]
- Report of the select committee of the House of Representatives investigating the methods and management of practices of the Bureau of Pensions, under resolution of 10th Feb. 1892. Wash., 1892. 2 v. 8°. (1), lxvii, 770 p.; (1), 771-1615 p. (52d Cong. 1st sess. House report, no. 1868, part 1-2.) [3]
- Report [of the select committee to establish the University of the United States]. *n.t.p.* [Wash., 1893.] 8°. 3 p. (52d Cong. 2d sess. Sen. report, no. 1384.) [3]
- Report [of the select committee to investigate the facts in relation to the employment for private purposes of armed bodies of men or detectives in connection with differences between workmen and employers. *n.t.p.* [Wash., 1893.] 8°. xxix, 271 p. (52d Cong. 2d sess. Sen. report, no. 1280.) [3]

United States. Congress, continued.

- Report of the subcommittee of the committee on fisheries, United States Senate, [on] the investigation of the United States Fish Commission. Wash., 1891. 8°. 86 p. (51st Cong. 2d sess. Sen. report, no. 2361.) [3]
- Report on introduction of domestic reindeer into Alaska, with maps and illus., by Sheldon Jackson, Jan. 1893. Wash., 1893. 8°. 39 p. (52d Cong. 2d sess. Sen. miscel. doc., no. 22.) [3]
- The reserve fund. Report [of the committee on the judiciary]. *n.t.p.* [Wash., 1892.] 8°. 16 p. (52d Cong. 1st sess. House report, no. 1780.) [3]
- Resolutions of the Fremont County Business Men's Club of Lander, Wyo., and the Dauphin County Farmer's Alliance and Industrial Union of Harrisburg, Pa., unanimously indorsing the Torrey bankruptcy bill and petitioning Congress to pass it. *n.t.p.* [Wash., 1893.] 8°. 5 p. (52d Cong. 2d sess. Sen. miscel. doc., no. 63.) [3]
- Retail prices and wages. Report by Mr. Aldrich from the committee on finance, June 19, 1892. Wash., 1892. 1 v. in 3 pt. 8°. (1), 2224 p. (52d Cong. 1st sess. Sen. report, [no.] 986.) [3]
- Rules of the House of Representatives, 52d Congress. Revised to March 21, 1892, with synopsis of rules and marginal index, by the journal clerk of the House. *n.t.p.* [Wash., 1892.] 8°. 40 p. [4]
- School lands in Oklahoma Territory. Report [of] the committee on territories. *n.t.p.* [Wash., 1891.] 8° sheet. (51st Cong. 2d sess. House report, no. 4004.) [3]
- Ship canal from the Great Lakes to the navigable waters of the Hudson River. Report [of the committee on railways and canals]. *n.t.p.* [Wash., 1892.] 8°. 49 p. (52d Cong. 1st sess. House report, no. 1023.) [3]
- Statutes, 1st session, 52d Congress, 1891-92, and recent treaties, *etc.* Wash., 1892. 1. 8°. [1]
- Statutes at large, [52d Congress], Dec. 1891—March 1893. Vol. 27. Wash., 1893. 1. 8°. [1]
- Tariff rates. The tariff act of 1890 compared with the tariff act of 1883 and the Mills bill. 2d ed. Prepared by J. M. Carson. Wash., 1892. 8°. xxix, (108) p. [3]
- Testimony taken before the subcommittee [on] the relief of the Stockbridge and Munsee tribe of Indians in Wisconsin. *n.t.p.* [Wash., 1892.] 8°. 71 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 226.) [3]
- Tin plate, terne plate and taggers' tin. Report [of the committee on ways and means relative to import duty on tin plate, *etc.*]. *n.t.p.* [Wash., 1892.] 8°. 8 p. (52d Cong. 1st sess. House report, no. 1040.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1892.] 8°. 18 p. (52d Cong. 1st sess. House report, no. 1040, part 2.) [3]
- Transfer of Revenue-Cutter Service. Report [of the committee on naval affairs]. *n.t.p.* [Wash., 1892.] 8°. 18 p. (52d Cong. 1st sess. House report, no. 1677.) [3]
- Report [of the committee on naval affairs on transferring the Revenue-Cutter Service from the Treasury Department to the Navy Department]. *n.t.p.* [Wash., 1892.] 8°. 40 p. (52d Cong. 1st sess. Sen. report, no. 530.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1892.] 8°. 8 p. (52d Cong. 1st sess. Sen. report, no. 530, part 2.) [3]
- A uniform system of bankruptcy. Report [of the committee on the judiciary]. *n.t.p.* [Wash., 1892.] 8°. 24, 8 p. (52d Cong. 1st sess. House report, no. 1674.) [3]
- *Same.* Views of the minority. *n.t.p.* [Wash., 1892.] 8°. 14 p. (52d Cong. 1st sess. House report, no. 1674, part 2.) [3]
- Views of the minority [of the finance committee on the bill to repeal the tax on the circulation of bank notes]. *n.t.p.* [Wash., 1892.] 8°. 5 p. (52d Cong. 1st sess. Sen. report, no. 608.) [3]

United States. Congress, continued.

- Violation of the 14th amendment [of the constitution]. Report [of the committee on the judiciary]. *n.t.p.* [Wash., 1892.] 8°. 11 p. (51st Cong. 2d sess. House report, no. 4009.) [3]
- Violations of the civil-service law at Baltimore. Report [of the select committee on reform in the civil service]. *n.t.p.* [Wash., 1892.] 8°. xiv, 92 p. (52d Cong. 1st sess. House report, no. 1669.) [3]
- Wearing apparel and personal effects admitted free of duty. Report [of the committee on ways and means]. *n.t.p.* [Wash., 1892.] 8°. 4 p. (52d Cong. 1st sess. House report, no. 1537.) [3]
- Wholesale prices, wages and transportation. Report by Mr. Aldrich from the committee on finance. Wash., 1893. 4 pt. 8°. (52d Cong. 2d sess. Sen. report, no. 1394.) [3]
- World's Fair expenditures. Report [of the committee on appropriations]. *n.t.p.* [Wash., 1892.] 8°. xv, 698 p. Folded map. (52d Cong. 1st sess. House report, no. 1464.) [3]
- See Hickcox, J. H.;—Hoar, G. F.;—Leigh, B. W.;—United States. Congress,—*Department of the Interior.*

(46th Congress. 2d session, Dec. 1879—June 1880.)

- Senate documents. Vol. 8. Wash., 1891. 8°. [2]

(50th Congress. 2d session, Dec. 1888—March 1889.)

- Reports of committees of the Senate. [Vol. 4. Part 2.] Wash., 1889. 8°. [2]
- House miscellaneous documents. Vol. 11, part 1-2; v. 16, 47. Wash., 1889-92. 3 v. 8°, 1 v. 1. 8°. [2]

(51st Congress. 1st session, Dec. 1889—Oct. 1890.)

- Senate executive documents. Vol. 3, 5, 8-9, 11. Wash., 1890. 5 v. 8°. [2]
- Reports of committees of the Senate. Vol. 1-4, 7-10. Wash., 1890. 8 v. 8°. [2]
- Senate miscellaneous documents. Vol. 1-2, 4. Wash., 1890. 3 v. 8°. [2]
- Executive documents. Vol. 1-13, 14 part 1, 16, 18-20, 22, 24, 28, 31-32, 36, 37-38, 44. Wash., 1890-91. 26 v. 8°, 1 v. 1. 8°. [2]
- Reports of committees of the House of Representatives. Vol. 5, 7, 10. Wash., 1891. 3 v. 8°. [2]
- House miscellaneous documents. Vol. 1, 9, 15-16, 24-29, 47. Wash., 1891. 11 v. 8°. [2]

(51st Congress. 2d session, Dec. 1890—March 1891.)

- Reports of committees of the Senate. Vol. 1. Wash., 1891. 8°. [2]
- Executive documents. Vol. 9, 30. Wash., 1891-92. 1 v. 8°, 1 v. 4°. [2]

(52d Congress. 1st session, Dec. 1891—Aug. 1892.)

- Journal of the Senate. Wash., 1892. 4°. [2]
- Journal of the House of Representatives. Wash., 1892. 4°. [2]
- Senate miscellaneous documents. Vol. 4, 7. Wash., 1892. 2 v. 1. 8°. [2]
- Executive documents. Vol. 1, 3-8, 10, 18. Wash., 1892. 8 v. 8°, 1 v. 1. 8°. [2]
- Reports of committees of the House. Vol. 11. Wash., 1892. 8°. [2]
- House miscellaneous documents. Vol. 2, 21, 27-31, 38, 41, 47, 48, 50 part 1, 51, 53, [with atlas]. Wash., 1892. 7 v. 4°, 5 v. 1. 8°, 2 v. 8°, 1 v. f°. [2]

(52d Congress. 2d session, Dec. 1892—March 1893, and special session of the Senate, March-April 1893.)

- Journal of the Senate. Wash., 1893. 4°. [2]
- Journal of the House. Wash., 1893. 4°. [2]
- Senate miscellaneous documents. Vol. 8. Wash., 1893. 1. 8°. [2]

Constitution.

- See Bartlett, I.;—Cohn, M. M.;—Hastings, H. P.;—Hoar, G. F.;—United States. Congress.

Consuls.

- Reports from consuls. Vol. 39-41. No. 140-151. May 1892—April 1893. Wash., 1892-93. 3 v. 8°. [3]

United States. Consuls, continued.

- Special consular reports. Vol. 7-9. Wash., 1891-93. 3 v. in 5. 8°. Illus. [3]

Contents.

Vol. 7. The slave trade in foreign countries. — Tariffs of foreign countries.

8. Fire and building regulations in foreign countries.

[9.] Australasian sheep and wool. — Vagrancy and public charities in foreign countries.

- See Seward, G. F.

Corps of Engineers, U. S. Army.

- Professional papers. No. 26. Wash., 1892. 4°. Plates. [3]

Contents.

No. 26. **Hodges, H. F.** Notes on mitring lock gates.

Court of Claims.

- Letter from the assistant clerk of the Court of Claims transmitting conclusions of law and fact relative to spoliation claims under the act approved Jan. 20, 1885. and the names of the vessels, masters and claimants, for the year 1891. *n.t.p.* [Wash., 1892.] 8°. 64 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 5.) [3]
- See Nott, C. C., and Hopkins, A.

Courts.

- See Lewis, J. American railroad and corporation reports, v. 5-6; — **United States. Congress.**

Department of Agriculture.

- Artesian and underflow investigation. Wash., 1892. 4 v. 8°. (52d Cong. 1st sess. Sen. doc. 41, part 1-4.) [3]

Contents.

Part 1. Report on irrigation and the cultivation of the soil thereby. With maps, illus. and papers, by R. J. Hinton.

2. Final report of the chief engineer, E. R. Nettleton. With maps, diagrams, etc.

3. Final geological reports, by Robert Hay.

4. Final report on the mid-plains division, by special agent, J. W. Gregory; and a special report on certain artesian conditions in South Dakota, by F. F. B. Coffin.

- Farmers' bulletin. No. 10-12. Wash., 1893. 8°. Plates. [3]

Contents.

No. 10. **Dewey, L. H.** The Russian thistle and other troublesome weeds in the wheat region of Minnesota and North and South Dakota.

11. **Shaw, T.** The rape plant: its history, culture and uses.

12. **Wiley, H. W.** Nostrums for increasing the yield of butter.

No. 10 is published by the Division of Botany; 11 by the Office of Experiment Stations; 12 by the Division of Chemistry.

- Fiber investigations. Report no. 5. Wash., 1893. 8°. Plates and illus. [3]

Contents.

No. 5. **Dodge, C. R.** A report on the leaf fibers of the United States, detailing results of recent investigations relating to Florida sisal hemp, etc.

- *Memorias sobre el uso del maíz en Europa y la posibilidad de extender su consumo.* Por H. W. Wiley [y] B. W. Snow. Wash., 1892. 8°. 24 p. [3]

- *Same.* [In Danish.] Beretning over brugen af Amerikansk mals i Europa. Wash., 1892. 8°. 22 p. [3]

- Progress report on the dairy industry of Denmark by C. C. Georgeson. *h.t.p.* [1893.] 8°. 14 p. [3]

- Report of the agent of the Department for making experiments in the production of rainfall. *n.t.p.* [Wash., 1892.] 8°. 59 p. (52d Cong. 1st sess. Sen. doc., no. 45.) [3]

- Report of the Commissioner, 1875. Wash., 1876. 8°. [3]

- Report of the Secretary, 1892. Wash., 1893. 8°. [3]

- Reports on the diseases of cattle in the United States, with accompanying documents. Wash., 1869. 8°. 190 p. Plate. [3, *Estate of the Hon. Geo. B. Loring.*]

- Studies of parasitic and predaceous insects in New Zealand, Australia, and adjacent islands. By A. Koebele. Wash., 1893. 8°. 39 p. [3]

(Bureau of Animal Industry.)

- Bulletin. No. 1-2. Wash., 1893. 8°. Plates. [3]

Contents.

No. 1. **Smith, T., and Kilborne, F. L.** Investigations into the nature, causation, and prevention of Texas or southern cattle fever.

2. **Salmon, D. E.** Report upon investigations relating to the treatment of lumpy jaw, or actinomyces, in cattle.

United States. Department of Agriculture. (Bureau of Animal Industry), continued.

- Special report on the history and present condition of the sheep industry of the United States, prepared by E. A. Carmen and others. Wash., 1892. 8°. 1000 p. Illus. [3]

(Division of Botany.)

- Bulletin. No. 12, part 1; no. 13. Wash., 1890-93. 3 v. 1. 8°. Plates. [3]

Contents.

No. 12. [Part 1.] **Vasey, G.** Illustrations of North American grasses. Vol. 1. Part 1. Grasses of the southwest.

13. — *Same.* Vol. 2. Grasses of the Pacific slope, including Alaska and the adjacent islands. Part 1-2.

- Contributions from the U. S. national herbarium. Vol. 1, no. 3-7, Nov. 1, 1890—July 15, 1893. Wash., 1890-93. 8°. Illus. [3]

Contents.

Vol. 1. No. 2. **Vasey, G., and Rose, J. N.** List of plants collected by Edward Palmer in 1890 in lower California and western Mexico at La Paz, San Pedro Martin Island, Raza Island, Santa Rosalia and Santa Agueda, Guaymas. 4. **Rose, J. N.** List of plants collected by Edward Palmer in 1890 in western Mexico and Arizona at Alamos, Arizona. 5. — List of plants collected by Edward Palmer in 1890 on Carmen Island; — **Rose, J. N., and others.** List of plants collected by the Albatross in 1887-91 along the western coast of America; — **Fisher, E. M.** Revision of the North American species of *hoffmanseggia*; — **Clark, J. A.** Systematic and alphabetic index of new species of North American pnanerogams and pteridophytes, published in 1891. 6. **Helminger, J. M.** List of plants collected by C. S. Sheldon and M. A. Carleton in 1891; — **Carleton, M. A.** Observations on the native plants of Oklahoma Territory and adjacent districts. 7. **Clark, J. A.** Systematic and alphabetic index to new species of North American phanerogams and pteridophytes, published in 1892.

(Division of Chemistry.)

- Bulletin. No. 13, part 8; 35-37. Wash., 1892-93. 8°. [3]

Contents.

No. 13. Foods and food adulterants. Part 8. **McElroy, K. P.** Canned vegetables. 35. **Association of Official Agricultural Chemists.** Proceedings, 9th annual convention, Washington, Aug. 25-27, 1892. 36. **Wiley, H. W., and Maxwell, W.** Experiments with sugar beets in 1892. 37. **Wiley, H. W.** Record of experiments with sorghum in 1892.

(Division of Entomology.)

- Bulletin. No. 28-30. Wash., 1892. 8°. Illus. [3]

Contents.

No. 28. **Brunner, L.** The more destructive locusts of America north of Mexico. 29. **Hally, F. W.** Report on the boll worm of cotton. 30. Reports of observations and experiments in the practical work of the division, made under the direction of the Entomologist.

- Periodical bulletin. Sept. 1892—July 1893. Insect life. Vol. 5. Wash., 1893. 8°. Illus. [3]

(Division of Forestry.)

- Bulletin. No. 2. 2d ed. Wash., 1889. 8°. 252, (1) p. Folded map and plates. [3]

Contents.

No. 2. Report on the forest conditions of the Rocky Mountains, and other papers.

- *Same.* No. 7-8. Wash., 1893. 8°, 4°. Plates. [3]

Contents.

No. 7. **Fernow, B. E., and others.** Forest influences. 8. **Fernow, B. E.** Timber physics. Part 2. Progress report.

- Circular no. 7-8. *n. t. p.* [Wash., 1891.] 8°. [3]
- Report of the Chief of the Division, 1892. By B. E. Fernow. Wash., 1893. 8°. [3]

(Division of Microscopy.)

- Food products, 1-2. Wash., 1891-93. 8°. Illus. [3]

Contents.

1. **Taylor, T.** Twelve edible mushrooms of the United States, with directions for their identification and their preparation as food. 2. — Eight edible and twelve poisonous mushrooms of the United States, with directions for the culture and culinary preparation of the edible species.

- Report of the Microscopist, 1892. By Thomas Taylor. Wash., 1893. 8°. Plates. [3]

United States. *Department of Agriculture, continued.**(Division of Ornithology and Mammalogy.)*

- Bulletin. No. 3. Wash., 1893. 8°. 210 p. Plates. [3]

Contents.

- No. 3. **Fisher, A. K.** The hawks and owls in the United States in their relation to agriculture.

- North American fauna. No. 7. Wash., 1893. 8°. Folded map and plates. [3]

Contents.

- No. 7. **Fisher, A. K., and others.** The Death Valley expedition: biological survey of parts of California, Nevada, Arizona and Utah. Part 2.

(Division of Records and Editing.)

- Report of the Chief of the Division, 1892. By G. W. Hill. Wash., 1893. 8°. [3]

(Division of Statistics.)

- Miscellaneous series. Report no. 5-7. Wash., 1893. 8°. Folded map. [3]

Contents.

- No. 5. Production and distribution of the principal agricultural products of the world.

- 6. **Amattin, A.** Rice, its cultivation, production and distribution in the United States and foreign countries. With a chapter on the rice soils of South Carolina by Milton Whitney.

- 7. **Hoyt, J. W.** An agricultural survey of Wyoming.

- Report of the Statistician. [New series. No. 99-107.] Sept. 1892—Aug. 1893. Wash., 1892-93. 8°. [3]

- Report on the condition of growing crops, etc., Aug.-Dec. 1892; March 1893. Wash., 1892-93. 8°. [3]

- Report upon the numbers and values of farm animals, and on cotton distribution. Jan.-Feb. 1893. Wash., 1893. 8°. 20 p. [3]

(Division of Vegetable Pathology.)

- Bulletin no. 2-4. Wash., 1892-93. 8°. Folded sheets and plates. [3]

Contents.

- No. 2. **Pierce, N. B.** The California vine disease. Preliminary report of investigations.

- 3. **Galloway, B. T.** Report on the experiments made in 1891 in the treatment of plant diseases.

- 4. **Smith, E. F.** Experiments with fertilizers for the prevention and cure of peach yellows.

- [Periodical bulletin.] Vol. 7, no. 1-3. [1891-93.] Wash., 1891-93. 8°. Plates. [3]

Contents.

Vol. 7, no. 1-3. The Journal of Mycology.

- Report of the Chief of the Division, 1890. By B. T. Galloway. Wash., 1891. 8°. Plates. [3]

(Office of Experiment Stations.)

- Bulletin, no. 11, 13. Wash., 1892-93. 2 v. 8°. [3]

Contents.

- No. 11. **Jenkins, F. H., and Winton, A. L.** A compilation of analyses of American feeding stuffs.

- 12. Organization lists of the agricultural experiment stations and agricultural schools and colleges in the United States, April 1893.

- Circular no. 1, 8, 11, 17-20, 22. *h.t.p.* [Wash., 1889-91.] 8°. [3]

Contents.

- No. 1. List of agricultural experiment stations in the United States, with addresses.

- 8. Explanations and directions for soil tests with fertilizers, March 1889.

- 11. Rules for naming vegetables. Report of committee of experiment station horticulturists, Sept. 1889.

- 17. Letters to manufacturers of spray machinery.

- 18. List of originators of fruits and vegetables in the United States, with addresses and names of specialties.

- 19. Experiments with fertilizers on fruits and vegetables, to study the feeding capacities of the plants and the variations due to the action of fertilizers.

- 20. Organization list of the agricultural experiment stations in the United States, June 1891.

- 22. Subject index of the literature of agricultural experiment stations and kindred institutions.

Department of the Interior.

- Abstract of suspended land entries. Letter from the Secretary transmitting a list of entries of public lands adjudicated by the Commissioner of the General Land Office, and confirmed by the Board of Equitable Adjudication, for the year ending June 30, 1891. *n.t.p.* [Wash., 1892.] 8°. 92 p. (52d Cong. 1st sess. Exec. doc., no. 100.) [3]

United States. Department of the Interior, continued.

- *Same.* For the year ending June 30, 1892. *n.t.p.* [Wash., 1893.] 8°. 154 p. (52d Cong. 2d sess. Exec. doc., no. 208.) [3]
- Annual report of the Secretary, June 30, 1892, v. 1-2. Wash., 1892. 2 v. 8°. Folded map. [3]
- Decisions in cases relating to pension claims, and the laws granting and governing pensions. Vol. 4-5. [1891-92.] Ed. by George Baber. Wash., 1891-92. 2 v. 8°. [3]
- Finding list, showing where in the congressional documents the individual volumes of certain series of government publications are found. Prepared by J. G. Ames. *A.t.p.* [Wash., 1892-93.] 8°. 52 p. [3]
- Letter from the Secretary transmitting a report of examination and review of the Census Office. *n.t.p.* [Wash., 1892.] 8°. 32 p. Illus. (52d Cong. 1st sess. Sen. doc., no. 69.) [3]
- Letter from the Secretary transmitting the report of the Maritime Canal Company of Nicaragua. *n.t.p.* [Wash., 1892.] 8°. 6 p. (52d Cong. 1st sess. Sen. exec. doc., no. 4.) [3]
- List of congressional documents, 15th-51st Congress, and of government publications, containing debates and proceedings, 1st-51st Congress, with miscellaneous lists of public documents, etc. Prepared by J. G. Ames. Wash., 1892 8°. 120 p. [3]
- Message from the President of the United States transmitting certain reports upon the condition of the Navajo Indian country. Wash., 1893. 8°. 50 p. Folded plans. (52d Cong. 2d sess. Sen. doc., no. 68.) [3]
- Orders, instructions, etc., relating to the efficiency record and examinations for promotions in the Department of the Interior. Jan. 1893. Wash., 1893. 8°. 18 p. [3]
- Register containing a list of persons employed in the Department appointed by the President or by the Secretary of the Interior. Corrected to Jan. 23, 1893. Wash., 1893. 8°. viii, 249 p. [3]
- Report of assistant secretary to the Secretary of the Interior, 1892, [on pension appeals and purchase of Indian supplies]. Wash., 1892. 8°. 12 p. [3]
- Report of the Secretary, 1878, [part 2]; June 30, 1887, v. 3, part 1-2; June 30, 1889, v. 4, part 1-2; Annual report, June 30, 1890, v. 1-3. Wash., 1878-90. 6 v. in 8. 8° and 1. 8°. Folded maps, plates. [3]
- Report regarding the receipt, distribution, and sale of public documents on behalf of the government, 1891-92. Wash., 1893. 8°. [3]

Department of Labor.

- 7th annual report of the Commissioner of Labor, 1891. Cost of production: the textiles and glass. Wash., 1892. 3 pt. in 2 v. 8°. [3]
- 2d-3d special report. Prepared under the direction of C. D. Wright. Wash., 1892-93. 2 v. 8°. [3]

Contents.

- 2d. Labor laws of the various states, territories, and the District of Columbia.
- 3d. Analysis and index of all reports issued by Bureau of Labor Statistics in the United States prior to Nov. 1, 1892.

Department of the Navy.

- Annual report of the Secretary, 1851, 53-58, 60-62, 64-66, 69-74, 76-77, 92. Wash., 1851-77, 92. 21 v. 8°. [3]

Nearly all these reports form part of the collected documents presented to Congress at the commencement of the session.

- Articles for the government of the navy. *A.t.p.* [Wash., 189-] 8°. 17 p. [3]
- Letter from the Secretary transmitting report relative to alleged defect in castings furnished by the Standard Steel Casting Company. *n.t.p.* [Wash., 1892.] 8°. 48 p. (51st Cong. 2d sess. Sen. exec. doc., no. 74.) [3]
- List and station of the commissioned and warrant officers of the navy, and of the marine corps on the active list, July 15, 1893. Wash., 1893. 8°. 56 p. [3]
- Register of the commissioned and warrant officers of the navy of the United States and of the marine corps, Jan. 1, 1893. Wash., 1893. 8°. 186 p. [3]

United States. Department of the Navy, continued.

- Regulations for the government of the navy of the United States, 1893. Wash., 1893. 8°. viii, (1), 592 p. [3]
- Supplement to the catalogue of the Department library. Author and title alphabet. Additions, Sept. 1890-92. Wash., 1892. f°. 90 p. [3]

Department of the Post Office.

- An additional argument by the Postmaster-General in favor of the establishment of postal savings depositories, with appendices. *n.t.p.* [Wash., 1892.] 8°. 71 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 136.) [3]
- Annual report of the Postmaster-General, June 30, 1892. Wash., 1892. 8°. [3]
- Conference of postmasters at Washington, D. C. Letter from the Postmaster-General transmitting certain information to the House of Representatives. *n.t.p.* [Wash., 1892.] 8°. 29 p. (52d Cong. 1st sess. Exec. doc., no. 196.) [3]
- Daily bulletins of orders affecting the postal service. Vol. 13. Jan. 2-Dec. 31, 1892. No. 3609-3914. [Wash., 1892.] f° sheets. [3]
- Letter from the Postmaster-General relative to the extension of the free delivery system to rural districts. *n.t.p.* [Wash., 1892.] 8°. 180 p. (52d Cong. 1st sess. Sen. doc., no. 92.) [3]
- Letter from the Postmaster-General submitting the record of the proceedings of the Convention of Postmasters of certain offices, Washington, March 9, 1892, to study plans to advance the efficiency and increase the revenue of the department. *n.t.p.* [Wash., 1892.] 8°. 28 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 166.) [3]
- Letter from the Postmaster-General transmitting reports touching Confederate records in the hands of private parties. *n.t.p.* [Wash., 1890.] 8°. 11 p. (51st Cong. 2d sess. Sen. doc., no. 7.) [3]
- The postal laws and regulations of the United States. Revised. Wash., 1893. 8°. 526 p. [3]
- Report of the First Assistant Postmaster-General, June 30, 1892. Wash., 1892. 8°. [3]
- Report of the Second Assistant Postmaster-General, 1892. Wash., 1892. 8°. [3]
- Report of the Third Assistant Postmaster-General, June 30, 1892. Wash., 1892. 8°. [3]
- Report of the Fourth Assistant Postmaster-General, June 30, 1892. Wash., 1892. 8°. Folded sheets. [3]
- United States official postal guide. 2d series. Vol. 14, no. 1, 4-12; v. 15, no. 1-8. Jan., April-Dec. 1892; Jan.-Aug. 1893. Phila., 1892-93. 8°. [3]
- See Cushing, M.

Department of State.

- Commercial agreements made with other countries. *n.t.p.* [Wash., 1892.] 8°. 151 p. (52d Cong. 1st sess. Sen. doc., no. 119.) [3]
- Commercial relations of the United States with foreign countries, 1890-91. Annual reports of consuls. Wash., 1892. 8°. [3]
- Communication of the Secretary regarding the effect of the pending bill to restrict immigration upon the treaty relations with other countries. *n.t.p.* [Wash., 1893.] 8°. 11 p. (52d Cong. 2d sess. Sen. doc., no. 25.) [3]
- [Correspondence] relative to the claim of the Venezuela Steam Navigation Company. *n.t.p.* [Wash., 1892.] 8°. 105 p. (52d Cong. 1st sess. Sen. doc., no. 79.) [3]
- The Department of State of the United States: its history and functions. [By Gaillard Hunt.] Wash., 1893. 8°. vi, 212 p. [3]
- Letter from the Secretary relative to a Peace Conference of the governments of the world to sit in Chicago during the Columbian Exposition. *n.t.p.* [Wash., 1892.] 8°. 11 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 163.) [3]
- Letters rogatory in foreign countries. Message from the President of the United States transmitting report of the Secretary and accompanying documents. *n.t.p.* [Wash., 1892.] 8°. 29 p. (51st Cong. 2d sess. Exec. doc., no. 281.) [3]

United States. Department of State, continued.

- List of books and pamphlets received at the library of the Department, May 27—June 30, 1893, supplemented by a list of periodicals and newspapers now currently received. New series, no. 1-4]. *A.t.p.* [Wash., 1892-93.] sm. 4°. [3]
- Message from the President relative to the agreement between the United States and Great Britain concerning the naval forces to be maintained on the Great Lakes. *n.t.p.* [Wash., 1892.] 8°. 59 p. (52d Cong. 2d sess. Sen. doc., no. 9.) [3]
- Message from the President transmitting the correspondence in relation to the non-acceptance of Hon. Henry W. Blair as minister to China, etc., with the memorial of Mr. Blair. Wash., 1892. 8°. 25 p. (52d Cong. 1st sess. Sen. doc., no. 98.) [3]
- Official correspondence of the government of the United States and China relating to the acts of Congress forbidding immigration of Chinese and the treaty stipulations between the two countries. *n.t.p.* [Wash., 1893.] 8°. 43 p. (52d Cong. 2d sess. Sen. doc., no. 54.) [3]
- Papers relating to foreign affairs, [accompanying the annual message of the President to the 3d session, 37th Congress, 1862-63.] *n.t.p.* [Wash., 1863.] 8°. [3]
- Papers relating to the annexation of the Hawaiian Islands to the United States. Wash., 1893. 8°. 192 p. [3]
- Papers relating to the foreign relations of the United States, with the annual message of the President, Dec. 1891-92. Wash., 1892-93. 2 v. 8°. Folded map. [3]
- Register. Corrected to Sept. 1, 1892-93. Wash., 1892-93. 2 v. 8°. [3]
- Regulations for the consular courts of the United States in Korea. *n.t.p.* [Wash., 1892.] 8°. 31 p. (52d Cong. 1st sess. Exec. doc., no. 104.) [3]
- [Report from the Secretary, with correspondence] relative to the draft of an uncompleted treaty with Hawaii. *n.t.p.* [Wash., 1893.] 8°. 14 p. (52d Cong. 2d sess. Sen. doc., no. 45.) [3]
- Report of the Secretary regarding certain claims provided for by a convention between the United States and Mexico. *n.t.p.* [Wash., 1892.] 8°. 10 p. (52d Cong. 1st sess. Sen. doc., no. 20.) [3]
- The seal of the United States: how it was developed and adopted. By Galliard Hunt. Wash., 1892. 8°. 32 p. Illus. [3]

1000 copies printed, of which this is no. 118.

Department of the Treasury.

- An account of the receipts and expenditures for the fiscal year ending June 30, 1889—June 30, 1890. Wash., 1893. 2 v. 8°. [3]
- Annual report of the First Auditor to the Secretary of the Treasury, June 30, 1892. Wash., 1892. 8°. [3]
- Annual report of the Second Auditor, 1892. Wash., 1892. 8°. [3]
- Annual report of the Fourth Auditor, June 30, 1892. Wash., 1892. 8°. [3]
- Annual report of the Fifth Auditor, June 30, 1892. Wash., 1892. 8°. [3]
- Annual report of the First Comptroller, June 30, 1892. Wash., 1892. 8°. [3]
- Annual report of the Second Comptroller, June 30, 1892. Wash., 1892. 8°. [3]
- Annual report of the Register, June 30, 1892. Wash., 1892. 8°. [3]
- Annual report of the Secretary on the state of the finances for the year 1892. Wash., 1892. 8°. [3]
- Annual report of the Treasurer, 1892. Wash., 1892. 8°. [3]
- Annual reports of the Auditor of the Treasury for the Post-Office Department to the Secretary of the Treasury and to the Postmaster-General, June 30, 1892. Wash., 1892. 8°. [3]
- Banks in the United States. Letter from the Secretary transmitting annual report on the banks in the United States, Dec. 31, 1862. *A.t.p.* [Wash., 1863.] 8°. 211 p. (37th Cong. 3d sess. Exec. doc., no. 25.) [1]
- *Same.* Annual report on the condition of the banks in the United States, [Dec. 22], 1863. Wash., 1863. 8°. viii, 225 p. [1]

United States. Department of the Treasury, continued.

- A brief history of the coinage legislation in the United States. Wash., 1891. 8°. 20 p. [3]
 - Combined statement of the receipts and disbursements, apparent and actual, of the United States, June 30, 1890-92. *A.t.p.* [Wash., 1890-92.] 4°. [3]
 - Digest of the decisions of the Second Comptroller. Compiled by George Chipman. Continued by J. W. Butterfield. Wash., 1865. 8°. viii, 279 p. [1]
 - *Same.* Vol. 3. 1884-93. [By] B. F. Gilkeson. Compiled by J. Q. Kern. Wash., 1893. 8°. 508 p. [3]
 - Examinations in the Department. Report of the Board of Examiners, 1892. Wash., 1893. 8°. [3]
 - Expenditures for the enforcement of the contract labor laws. Letter from the acting Secretary of the Treasury. *n.t.p.* [Wash., 1892.] 8°. 9 p. (52d Cong. 1st sess. Exec. doc., no. 162.) [3]
 - Immigration laws and regulations, April 25, 1893. Wash., 1893. 8°. 16 p. [3]
 - Letter from the Acting Secretary of the Treasury relative to line-carrying projectiles and the means of propelling them. *n.t.p.* [Wash., 1892.] 8°. 12 p. (52d Cong. 1st sess. Sen. doc., no. 22.) [3]
 - Letter from the Acting Secretary submitting a statement relative to the appropriation for salaries of light-keepers. *n.t.p.* [Wash., 1892.] 8°. 22 p. (52d Cong. 1st sess. Sen. doc., no. 38.) [3]
 - Letter from the Secretary relative to banking statistics of state banks, banking institutions, savings banks and national banks, etc., 1830-63. *n.t.p.* [Wash. 1893.] 8°. 119 p. (52d Cong. 2d sess. Sen. doc., no. 38, part 1.) [3]
 - Letter from the Secretary relative to the purchase of silver under the act of July 14, 1890. *n.t.p.* [Wash., 1892.] 8°. 69 p. (52d Cong. 1st sess. Sen. doc., no. 78.) [3]
 - Letter from the Secretary transmitting estimates of appropriations required for the service of the fiscal year ending June 30, 1894. Wash., 1892. 4°. [3]
 - Letter from the Secretary transmitting reports of special agents to the seal islands, [1891-92]. *n.t.p.* [Wash., 1893.] 8°. 140 p. Folded chart and illus. (52d Cong. 2d sess. Sen. doc., no. 107.) [3]
 - Report of the Supervising Special Agent to the Secretary of the Treasury, June 30, 1892. Wash., 1892. 8°. [3]
 - Special report by Ira Ayer relative to the manufacture of tin and terne plates, *etc.*; also, supplementary report of the present state of tin mining in the United States, April 26, 1892. Wash., 1892. 8°. 47 p. (52d Cong. 1st sess. Sen. doc., no. 102.) [3]
 - Special report by Ira Ayer, showing the production of tin and terne plates in the United States during the fiscal year ended June 30, 1892, *etc.* Also a brief statement relative to the production and development of the tin mines of the United States. Wash., 1892. 8°. 22 p. [3]
 - *Same.* During the quarter ended Sept. 30, Dec. 31, 1892. Wash., 1892-93. 8°. [3]
 - Specie resumption and refunding of national debt. Letter from the Secretary of the Treasury transmitting letters and documents pertaining to resumption of specie payments, *etc.* *n.t.p.* [Wash., 1879.] 8°. 992 p. (46th Cong. 2d sess. Exec. doc., no. 9.) [1]
 - Statement of the public debt and of the cash in the treasury of the United States, Sept. 1892—Aug. 1893. [Wash., 1892-93.] Broadsides. [3]
 - Synopsis of the decisions of the Treasury and Board of U. S. General Appraisers on the construction of the tariff, navigation, and other laws, for 1892. Wash., 1893. 2 v. 8°. [3]
 - See Kinley, D.; — Lincoln, L.; — United States. Congress.
- (Warrant Division.)
- Digest of appropriations for the support of the government, June 30, 1893-94; and of deficiencies for prior years. Wash., 1892-93. 2 v. 4°. [3]

United States, *continued.**Department of War.*

- Cavalry drill regulations, United States army, Oct. 3, 1891. Wash., 1891. 32°. 534 p. Illus. [3]
- Civilian employes of the army. Letter from the Acting Secretary of War transmitting a list of employes, with the amount paid to each. *n.t.p.* [Wash., 1892.] 8°. 48 p. (52d Cong. 1st sess. Exec. doc., no. 19.) [3]
- Employes of the War Department. Letter from the Secretary of War transmitting a list of employes, Dec. 1, 1889—Nov. 30, 1890, and sums paid to each, *etc.* *n.t.p.* [Wash., 1891.] 8°. 69 p. (51st Cong. 2d sess. Exec. doc., no. 197.) [3]
- Infantry drill regulations, United States army, Oct. 3, 1891. Wash., 1891. 32°. 363 p. Illus. [3]
- Light artillery drill regulations, United States army, Oct. 3, 1891. Wash., 1891. 32°. 567 p. [3]
- Manual of calisthenic exercises. Wash., 1892. 32°. vii, 54 p. [3]
- Military Information Division. No. 1. The Hawaiian Islands. Report on the physical features, ports of landing, supplies, *etc.* Compiled for the army. Wash., 1893. sm. 4°. 34 p. Folded maps. [3]
- Register of the War Department, March 16, 1893. Wash., 1893. 9°. 201 p. [3]
- [Report of the Secretary, 1863, 55-62, 65, part 1]; Annual report, 1892, v. 2 (in 4 pt.). Wash., 1853-92. 15 v. 8°, f°. [3]

The reports for 1863, 55-62, are parts of the "Messages from the President of the United States to the two Houses of Congress."

- Troops in campaign. Regulations for the army of the United States. Wash., 1892. 32°. 54 p. Folded diagram. [3]
- The war of the rebellion: a compilation of the official records of the Union and Confederate armies. By G. B. Davis, [and others]. Series 1. Vol. 40-41. Wash., 1892-93. 2 v. in 7. 8°. [3]
- Atlas to accompany the official records of the Union and Confederate armies, [1861-65]. Compiled by C. D. Cowles. Part 8-14, 17-18. Wash., 1892-93. 10 v. f°. [3]

Electrical Commission of the District of Columbia.

- Report of the Electrical Commission appointed to consider the location, arrangement and operation of electric wires in the District of Columbia. Wash., 1892. 8°. 151 p. Folded maps, plates and illus. (52d Cong. 1st sess. Exec. doc., no. 15.) [3]

Freedmen's Hospital.

- Report to the Secretary of the Interior, 1892. [C. B. Purvis, Surgeon-in-Chief.] Wash., 1892. 8°. [3]

General Land Office.

- Coal-land law and regulations thereunder, July 31, 1882. Reprint. [Wash., 1892.] 8°. 9 p. [3]
- Decisions of the Department of the Interior and General Land Office in cases relating to the public lands, June 30—Dec. 31, 1892. Vol. 15. Ed. by S. V. Froudfit. Wash., 1893. 8°. [3]
- [Report of the Commissioner, 1851. Wash., 1851.] 8°. [3]

This report is a part of the "Message from the President of the United States to the two Houses of Congress at the commencement of the 1st session, 52d Congress."

- United States mining laws, and regulations thereunder. Approved Dec. 10, 1891. [Reissued May 16, 1893. Wash., 1893.] 8°. 39 p. [3]

Geographical and Geological Survey of the Rocky Mountain Region, J. W. Powell in charge.

- Contributions to North American ethnology. Vol. 7. Wash., 1890. 4°. [3]

Contents.

Vol. 7. Riggs, S. R. A Dakota-English dictionary.

United States, continued.

Geological and Mineralogical Survey of the Mineral Lands of the United States in Michigan.

- Report, made under the authority of an act of Congress, approved March 1, 1847, by C. T. Jackson, geologist. *n.f.p.* Wash., 1849. 8°. (565) p. Folded maps. [3]

Pages 371-935 of Sen. doc 1, part 3, 31st Congress, 1st session.

Geological Survey, J. W. Powell, director.

- 11th annual report, 1889-90. Wash., 1891. 2 v. 1. 8°. Maps and illus. [3]

Contents.

- 11th. Part 1. Annual report of the director. — Administrative reports. — McGee, W. J. The pleistocene history of northeastern Iowa. — Phinney, A. J. The natural gas field of Indiana. — Index. Part 2. United States. *Irrigation Survey.* 3d annual report, 1890-91.

- Bulletin. No. 82-85, 90-96. Wash., 1891-92. 11 v. 8°. Folded maps. [3]

Contents.

- No. 82. White, C. A. Correlation papers, Cretaceous.
- 83. Clark, W. B. Correlation papers, Eocene. [With a bibliography.]
- 84. Dall, W. H., and Harris, G. D. Correlation papers, Neocene.
- 85. Russell, I. C. Correlation papers, the Newark system.
- 90. Clarke, F. W. Report of work done in the Division of Chemistry and Physics during the fiscal year 1890-91.
- 91. Barton, N. H. Record of North American geology for 1890.
- 92. Barnes, C. The compressibility of liquids.
- 93. Semder, S. H. Some insects of special interest from Florissant, Colorado, and other points in the tertiary of Colorado and Utah.
- 94. Barnes, C. The mechanism of solid viscosity.
- 95. Holden, E. S. Earthquakes in California, 1890-91.
- 96. Barnes, C. The volume thermodynamics of liquids.

- Letter from the Acting Secretary of the Interior relative to reports of the Geological Survey upon irrigation and reclamation of lands. *n.f.p.* [Wash., 1892.] 8°. 73 p. (52d Cong. 1st sess. Sen. doc., no. 100.) [3]
- Monographs. Vol. 17-18, 20. Wash., 1892. 3 v. 4°. Plates. [3]

Contents.

- Vol. 17. Lesquereux, L. The flora of the Dakota group.
- 18. Whitfield, R. P. Gastropoda and cephalopoda of the Raritan clays and green sand marls of New Jersey.
- 20. Hague, A. Geology of the Eureka District, Nevada. With an atlas.

- The production of iron ores in 1891. By John Birkinbine. Wash., 1892. 8°. 37 p. Folded plate. [3]
- Suggestions for the preparation of manuscript and illustrations for publication by the Geological Survey. By W. A. Croft. Jan. 1892. *h.f.p.* [1892.] 8°. 15 p. [3]
- [Topographical atlas of the United States. Henry Gannett, chief geographer. Wash., 1892-93.] Scale, $\frac{1}{250,000}$ and $\frac{1}{500,000}$. 46 sheets. [3]
- Twenty years of progress in the manufacture of iron and steel in the United States. By J. M. Swank. Wash., 1893. 8°. (28) p. [3, James M. Swank]

(Division of Mining Statistics and Technology.)

- Mineral products of the United States, 1890-91. [Wash., 1892.] Broadside. [3]
- Mineral resources of the United States, 1891. Wash., 1893. 8°. Folded chart. [3]

Geological Survey of Nebraska and Adjacent Territories.

- Final report. By F. V. Hayden. Wash., 1872. 8°. 264, (17) p. Folded map, plates. [3]

Government Hospital for the Insane.

- Report to the Secretary of the Interior, 1892. Wash., 1892. 8°. [3]

Government Printing Office.

- Annual report of the Public Printer for the fiscal year ending June 30, 1892. Wash., 1893. 8°. [3]

Hydrographic Office.

- Annual report of the Hydrographer for the fiscal year ending June 30, 1892. Wash., 1892. 8°. [3]

United States. *Hydrographic Office, continued.*

- Coasts of the Mediterranean Sea, part 1; Coasts and islands of the Mediterranean Sea, part 2. Wash., 1875-78. 2 v. 8°. Folded plates. ([Publ.], no. 37-38.) [3]

Contents.

- Part 1. S. and S. E. coasts of Spain from Mala Bahia to Cape Creux, Balearic Islands, and N. coast of Africa from Cents to La Cala. By H. H. Gorrings.
- 2. South coast of France; west coast of Italy; Tuscan archipelago; Corsica and Sardinia. By H. H. Gorrings [and] Seaton Schroeder.
- *Same*. Supplement. 3d ed. Part 1-4. Wash., 1892. 8°. (Publ., no. 37-38, 42, 68.) [3]
- Hydrographic bulletin. Weekly. No. 162-212, Oct. 5, 1892—Sept. 20, 1893. [Wash., 1892-93.] Broad-sides. [3]
- Indian Ocean, including the Java Sea, Sulu Sea, Aduera Sea, and the Philippine Islands. [Supplements, no. 1-3.] Wash., 1892. 8°. (37) p. (Publ., no. 85.) [3]
- List of lights of the world. Vol. 2. South and east coasts of Asia and Africa and the East Indies, including Australia, Tasmania, and New Zealand. Corrected to June 1892. Wash., 1892. 8°. 163, xv p. (Publ., no. 31.) [3]
- List of reported dangers in the North Pacific Ocean. [Supplement no. 2. Nov. 1891.] Wash., 1891. 8°. 29 p. ([Publ.], no. 41.) [3]
- The methods and results of the survey of the west coast of Lower California, by the officers of the U. S. S. "Ranger," 1889-90. Wash., 1892. 8°. 237 p. Folded charts, maps and illus. ([Publ., no.] 101.) [1]
- The navigation of the Caribbean Sea and Gulf of Mexico. Vol. 1. 3d ed. Wash., 1892. 8°. x, 565 p. Folded map. ([Publ.], no. 86.) [3]

Contents.

- Vol. 1. May, R. C. The West India Islands, including the Bermuda Islands and the Bahama Banks.
- The navigation of the Pacific Ocean, China Seas, and connecting waters. Tr. from the French of F. Labrosse. Wash., 1893. 8°. 251 p. ([Publ.], no. 58.) [3]
- Notices to mariners, 1892. [53 nos.] Wash., 1892. 8°. [3]
- Pilot chart of the North Atlantic Ocean, Oct. 1892—Sept. 1893. Wash., [1892-93]. Broad-sides. [3]
- *Same*. [Supplement to Nov. 1892.] The hurricane of Nov. 21-28, 1893, off the Atlantic coast of the United States. Wash., [1892]. f° sheet. [3]
- *Same*. [Supplement to Jan. 1893.] Transatlantic steamship routes. Wash., [1893]. f° sheet. [3]
- Report of the results of the survey for the purpose of determining the practicability of laying a telegraphic cable between the United States and the Hawaiian Islands. [By Richardson Clover] Wash., 1892. 4°. 28 p. Folded map, plates and illus. (52d Cong. 1st sess. Sen. doc., no. 153.) [3]
- Sailing directions for English Channel. Part 1-2. Wash., 1872-77. 2 v. 8°. v, (1), 255 p.; viii, 598 p. Folded maps. ([Publ.], no. 34-35.) [3]

Contents.

- Part 1. South coast of England.
- 2. North coast of France and Channel Islands. By A. C. Baker.
- *Same*. Part 1. Supplement [no. 1]. 2d ed. [Oct. 1889.] A.f.p. [Wash., 1889.] 8°. 14 p. [3]
- *Same*. Supplement no. 2. [Nov. 1891.] Wash., 1891. 8°. 20 p. [3]
- *Same*. [Part 2.] Supplements. 2d ed. [No. 1]-2. Wash., 1892. 8°. 8, 7 p. [3]
- Sailing directions for Gulf and River St. Lawrence and Cape Breton Island. By R. H. Orr. Wash., 1891. 8°. viii, 271 p. Folded map and sheet. ([Publ.], no. 100.) [3]
- Sailing directions for Nova Scotia, Bay of Fundy, and south shore of Gulf of St. Lawrence. Compiled by R. H. Orr. Wash., 1891. 8°. viii, 305 p. Folded map and sheet. ([Publ.], no. 99.) [3]
- Submarine cables. Instruments and implements employed in cable survey. Theory of cable laying, etc. Wash., 1892. 8°. 67 p. Folded map, plates. ([Publ.], no. 103.) [3]

United States. Hydrographic Office, continued.

- The west coast of South America, comprising Magellan Strait, Tierra del Fuego, and the outlying islands. Revised by R. C. Ray. Wash., 1890. 8°. x, 379 p. Map. ([Publ., no. 89.]) [3]
- *Same.* Supplement. 2d ed. Wash., 1892. 8°. 15 p. (Publ., no. 89.) [3]
- Wreck chart of the North Atlantic coast of America, [1887-91]. Wash., 1893. Broadside. [3]

Inspector-General of the Army.

- Annual report to the Secretary of War for the year 1892. Wash., 1892. 8°. 696 p. Folded returns. [3]
- Annual reports to the Major-General commanding the Army, to the Secretary of War, also inspection report, Soldiers' Home, [1891-92], etc. [Wash., 1891-92.] 2 v. 8°. [3]

Interstate Commerce Commission.

- 6th annual report, Dec. 1, 1892. Wash., 1892. 8°. [3]
- 3d-4th annual report on the statistics of railways in the United States, June 30, 1890-91. Wash., 1891-92. 2 v. 8°. Folded map and diagrams. [3]
- Relations of railway companies and their employes. Appendix G, 6th annual report, Dec. 1, 1892. Wash., 1893. 8°. (35) p. [3]

Judge-Advocate-General.

- Report of the Acting Judge-Advocate-General to the Secretary of War, 1892. Wash., 1892. 8°. [3]

Library of Congress.

- List of books, pamphlets, and periodicals relating to banking and finance in the United States. *n.t.p.* [Wash., 1892.] 8°. 10 p. [3]
- Memorial of George F. Curtis, law librarian of Congress, praying for the preparation, printing, and distribution of a subject and authors catalogue of the law library of Congress. *n.t.p.* [Wash., 1892.] 8°. 12 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 104.) [3]
- See Rice, W. W.;—United States. *Office of the Chief of Engineers.*

Life-Saving Service.

- Annual report of operations for the fiscal year ending June 30, 1890-91. Wash., 1892-93. 2 v. 8°. Plates. [3]
- Official register, July 1, 1892. With post-office addresses. Wash., 1892. 8°. [3]
- See, back, Congress.

Light-House Board.

- Annual report, June 30, 1892. Wash., 1892. 8°. Folded plates and maps. [3]
- Bulletin of recent changes in aids to navigation. No. 17-28. Oct. 1, 1892—Sept. 1, 1893. [Wash., 1892-93.] 4°. [3]
- List of beacons, buoys, and day-marks in the 1st light-house district. From the northeast boundary of the United States to Hampton Harbor, N. H. Corrected to May 1, 1892. Wash., 1892. 1. 8°. 108 p. [3]
- *Same.* Corrected to May 1, 1893. Wash., 1893. 1. 8°. 108 p. [3]
- *Same.* 2d light-house district. From Hampton River, N. H., to Warren Point, R. I., including Nantucket and Vineyard sounds, Buzzard's Bay, and their tributaries. Corrected to June 1, 1892. Wash., 1892. 1. 8°. [3]
- *Same.* Corrected to June 1, 1893. Wash., 1893. 1. 8°. 110 p. [3]
- *Same.* 3d light-house district. From Sakonnet Point, R. I., [to] Shrewsbury River, N. J., and including Lake Champlain and Lake Memphremagog. Corrected to July 1, 1892. Wash., 1893. 1. 8°. 128 p. [3]
- *Same.* 4th light-house district. From a point on the coast opposite the mouth of the Shrewsbury River, N. J., to Metomkin Inlet, Va. Corrected to Dec. 1, 1892. Wash., 1893. 1. 8°. 46 p. [3]
- *Same.* 5th light-house district. Seacoast of Virginia and North Carolina from Metomkin Inlet to New River Inlet. Corrected to Aug. 1, 1892. Wash., 1893. 1. 8°. 130 p. [3]

United States. Light-House Board, continued.

- *Same.* 6th light-house district. From New River Inlet, N. C., to Jupiter Inlet, Florida, and including Indian River. Corrected to Dec. 31, 1892. Wash., 1893. 1. 8°. 52 p. [3]
- *Same.* 7th light-house district. The coast of Florida from Jupiter Inlet to Perdido River. Corrected to Dec. 1, 1892. Wash., 1893. 1. 8°. 51 p. [3]
- *Same.* 8th light-house district. From Mobile, Ala., to the Rio Grande, Texas. Corrected to Dec. 31, 1892. Wash., 1893. 1. 8°. 25 p. [3]
- *Same.* [9th-11th light-house district.] On the northern lakes and rivers. Corrected to the opening of navigation, 1893. Wash., 1893. 1. 8°. 94 p. [3]
- List of beacons, buoys, and day-marks on the Pacific coast of the United States. Corrected to Dec. 31, 1892. Wash., 1893. 1. 8°. 68 p. [3]
- List of lights and fog-signals on the Atlantic and Gulf coasts of the United States. Corrected to Jan. 1, 1893. Wash., 1893. 1. 8°. 129 p. Illus. [3]
- List of lights and fog-signals on the Pacific coast of the United States, Canada and British Columbia. Corrected to Jan. 1, 1893. Wash., 1893. 1. 8°. 38 p. Illus. [3]
- Notices to mariners. No. 1-127, [Jan. 2-Dec. 28, 1892]. Wash., 1892. Broad-sides. [3]
- *See, back, Department of the Treasury.*

Major-General Commanding the Army.

- Report to the Secretary of War, 1892. Wash., 1892. 8°. [4]

Marine Corps.

- Annual report of the Colonel Commandant to the Secretary of the Navy, 1892. Wash., 1892. 8°. [3]
- Regulations for the uniform and dress, equipments, etc., of the Corps. July 14, 1892. Wash., 1892. 12°. 31 p. [3]

Marine Hospital Service.

- Annual report of the Supervising Surgeon-General, 1875. With an appendix. Wash., 1876. 8°. Folded maps and charts. [3, *Estate of the Hon. George B. Loring.*]
- Laws and regulations for the maritime quarantines of the United States, April 4, 1893. Wash., 1893. 8°. 17 p. [3]
- Official list of medical officers, including acting surgeons and hospital stewards, etc., Jan. 1889-July 1891. Wash., 1889-91. 24°. [3]
- United States quarantine laws and regulations, Feb. 24, 1893. Wash., 1893. 8°. 19 p. [3]
- Weekly abstract of sanitary reports, [1892]. Vol. 7. Nos. 1-53. Wash., 1893. 8°. [3]

Mexican Claims Commission.

- *See, back, Department of State.*

Military Academy at West Point.

- Addresses to the graduating class, June 14, 1877, by Prof. C. O. Thompson, [and others]. N. Y., 1877. 12°. 43 p. [3]
- Annual report of the Superintendent, 1892. Wash., 1892. 8°. Folded map. [3]
- Official register of the officers and cadets, June 1893. n.p., [1893]. 12°. [3]

Mississippi River Commission.

- *See, back, Congress.*

National Museum.

- The ancient pit-dwellers of Yezo, Japan. By Romeyn Hitchcock. Wash., 1892. 8°. (12) p. Map, plates and illus. [3]
- An annotated catalogue of the mammals collected by W. L. Abbott in the Kilima-Njaro region, East Africa. By F. W. True. Wash., 1892. 8°. (36) p. Plates and illus. (Proceedings, no. 915.) [3]
- Annual report, 1890-91. *See Smithsonian Institution.*

United States. *National Museum, continued.*

- Anthropology at the Paris Exposition, 1889. By Thomas Wilson. Wash., 1892. 8°. (41) p. Plates and illus. [3]
- Catalogue of the crabs of the family malidæ in the U. S. National Museum. By M. J. Rathbun. Wash., 1893. 8°. (41) p. Plates. (Proceedings, no. 927.) [3]
- Catalogue of the fresh-water fishes of Central America and southern Mexico. By C. H. Eigenmann. Wash., 1893. 8°. (10) p. (Proceedings, no. 925.) [3]
- The Catlin collection of Indian paintings. By Washington Matthews. Wash., 1892. 8°. (19) p. Plates. [3]
- Description of a new species of cyprinoid fish, *Conesius Greeni*, from the head waters of Frazer River in British Columbia. By D. S. Jordan. *n.t.p.* [Wash., 1893.] 8°. (1) p. (Proceedings, no. 938.) [3]
- Description of a new species of fruit bat, *pteropus aldabrensis*, from Aldabra Island. By F. W. True. *n.t.p.* [Wash., 1893.] 8°. (2) p. (Proceedings, no. 948.) [3]
- Description of a supposed new species of *odontophorus* from southern Mexico. By Robert Ridgway. *n.t.p.* [Wash., 1893.] 8°. (2) p. (Proceedings, no. 945.) [3]
- Description of some fossil plants from the Great Falls coal field of Montana. By W. M. Fontaine. Wash., 1892. 8°. (11) p. Plates. (Proceedings, no. 918.) [3]
- A description of the golden trout of Kern River, California, *salmo mykiss aguanbonita*. By D. S. Jordan. *n.t.p.* [Wash., 1893.] 8°. 3 p. (Proceedings, no. 916.) [3]
- Description of two supposed new species of swifts. By Robert Ridgway. *n.t.p.* [Wash., 1893.] 8°. (2) p. (Proceedings, no. 923.) [3]
- Diagnosis of a new Californian lizard. By Leonhard Stejneger. *n.t.p.* [Wash., 1893.] 8°. (1) p. (Proceedings, no. 944.) [3]
- The humming birds. By Robert Ridgway. Wash., 1892. 8°. (132) p. Plates and illus. [3]
- Insects of the subfamily encyrtinæ with branched antennæ. By L. O. Howard. Wash., 1892. 8°. (9) p. Plates. (Proceedings, no. 905.) [3]
- Introduction to a monograph of the North American bats. Notes on the genera of *vespertilionidæ*. By Harrison Allen, M.D. Wash., 1893. 8°. 31 p. (Proceedings, no. 919-920.) [3]
- List of diatomacæ from a deep-sea dredging in the Atlantic Ocean off Delaware Bay by the U. S. Fish Commission steamer Albatross. By Albert Mann. Wash., 1893. 8°. (10) p. (Proceedings, no. 937.) [3]
- Lists of institutions and foreign and domestic libraries to which it is desired to send future publications of the Museum. Wash., 1891. 8°. (88) p. [3]
- The methods of fire-making. By Walter Hough. Wash., 1892. 8°. (16) p. Illus. [3]
- Note on the wall-eyed pollack, *pollachius chalcogrammus fucensis*, of Puget Sound. By D. S. Jordan and C. H. Gilbert. *n.t.p.* [Wash., 1893.] 8°. (2) p. (Proceedings, no. 939.) [3]
- Notes on a few fossil plants from the Fort Union group of Montana, with a description of one new species. By F. H. Knowlton. Wash., 1893. 8°. (4) p. Plates. (Proceedings, no. 921.) [3]
- Notes on American hemiptera heteroptera. By A. L. Montandon. Wash., 1893. 8°. (10) p. (Proceedings, no. 924.) [3]
- Notes on Erian (Devonian) plants from New York and Pennsylvania. Notes on *nematophyton crassum*. By D. P. Penhallow. Wash., 1893. 8°. (14) p. Plates. (Proceedings, no. 928, 929.) [3]
- Notes on the flowers of *anthoxanthum odoratum* L. By Theo. Holm. Wash. 1892. 8°. (5) p. (Proceedings, no. 910.) [3]
- Notes on the unionidæ of Florida and the southeastern states. By C. T. Simpson. Wash., 1892. 8°. (32) p. Plates. (Proceedings, no. 911.) [3]

United States. National Museum, continued.

- On a collection of batrachians and reptiles from Mount Orizaba, Mexico, with descriptions of two new species. By W. S. Blatchley. Wash., 1893. 8°. (8) p. (Proceedings, no. 922.) [3]
- On a new subfamily of phyllostome bats. Description of a new genus of phyllostome bats. On Temminck's bat, *scotophilus temminckii*. By Harrison Allen. Wash., 1892. 8°. (8) p. Illus. (Proceedings, nos. 912-914.) [3]
- On the breeding habits, eggs, and young of certain snakes. By O. P. Hay. Wash., 1892. 8°. (13) p. (Proceedings, no. 909.) [3]
- On the ejection of blood from the eyes of horned toads. By O. P. Hay. Wash., 1892. 8°. (9) p. (Proceedings, no. 907.) [3]
- On the making of gelatin casts. By J. W. Scolllick. *n.t.p.* [Wash., 1893]. 8°. (2) p. (Proceedings, no. 926.) [3]
- On the occurrence of the spiny boxfish, genus *chilomycterus*, on the coast of California. By C. H. Eigenmann. Wash., 1892. 8°. (4) p. Plate. (Proceedings, no. 917.) [3]
- On the status of the gray shrike collected by Capt. Blakiston, in Yezo, Japan. By Leonhard Stejneger. *n.t.p.* [Wash., 1893]. 8°. (2) p. (Proceedings, no. 931.) [3]
- Proceedings. Vol. 14. 1891. Wash., 1892. 8°. Plates. [3]
- Scientific results of explorations by the U. S. Fish Commission steamer Albatross. Descriptions of new genera and species of crabs from the west coast of North America and the Sandwich Islands. By M. J. Rathbun. Wash., 1893. 8°. (38) p. (Proceedings, no. 933.) [3]
- *Same*. No. 23. Report on the actiniae collected during the winter of 1887-88. By J. P. McMurrich. Wash., 1893. 8°. (100) p. Plates. (Proceedings, no. 930.) [3]
- Throwing-sticks from Mexico and California. By O. T. Mason. *n.t.p.* [Wash., 1893]. 8°. (3) p. Illus. (Proceedings, no. 932.) [3]
- Two additions to the Japanese avifauna, including description of a new species. By Leonhard Stejneger. Wash., 1892. 8°. (3) p. (Proceedings, no. 906.) [3]
- White-line engraving for relief-printing in the fifteenth and sixteenth centuries. By S. R. Koehler. Wash., 1892. 8°. (11) p. Illus. [3]

Naval Academy at Annapolis.

- Annual register, 48th academic year, 1892-93. Wash., 1892. 8°. [3]
- Report of the board of visitors, 1885, 90, 92. Wash., 1885-92. 8°. [3]

Naval Observatory.

- Observations made during 1888. With appendices and plates. Wash., 1892. 4°. [3]
- Observations of double stars made at the Naval Observatory. Part 2. 1880-91. By Asaph Hall. Wash., 1892. 4°. 203 p. (Observations, 1888. Appendix 1.) [3]
- Report of the Superintendent for the year ending [June 30], 1892. Wash., 1892. 8°. [3]

Office of the Chief of Engineers.

- Annual report, 1892. [With] atlas. Wash., 1892. 4 v. 8°, 1 v. 4°. [3]
- Menemsha Bight. Letter from the acting Secretary of War transmitting with a letter the report of the examination and survey of Menemsha Bight, Mass. *n.t.p.* [Wash., 1892.] 8°. 5 p. Folded map. (52d Cong. 1st sess. Exec. doc., no. 60.) [3]
- Report relative to the character of the building material used in the construction of the building for the Library of Congress. *n.t.p.* [Wash., 1893.] 8°. 46 p. (52d Cong. 2d sess. Sen. miscel. doc., no. 45.) [3]
- Report upon the construction of the building for the Library of Congress, during the year ending Dec. 1, 1891. *n.t.p.* [Wash., 1892.] 8°. 4 p. Folded illus. (52d Cong. 1st sess. Sen. miscel. doc., no. 15.) [3]

United States, continued.

Office of Indian Affairs.

- Letter from the Secretary of the Interior with inclosures relative to the necessity for congressional action for the disposition of timber on certain reservations in Wisconsin. *n.t.p.* [Wash., 1892.] 8°. 21 p. (52d Cong. 1st sess. Sen. doc., no 16.) [3]
- Proposals received and contracts awarded in New York City, Washington and San Francisco, under advertisements of April 4 and May 29, 1891, for supplies and transportation of same for the Indian service, 1892. *h.t.p.* [Wash., 1892.] 8°. 255 p. [3]
- Report made by the Hampton Institute regarding its returned Indian students. *n.t.p.* [Wash., 1892.] 8°. 87 p. Folded maps and illus. (52d Cong. 1st sess. Sen. doc., no 31.) [3]
- Report of the Commissioner, 1849, 58-59, 62; 61st annual report, 1892. Wash., 1849-92. 5 v. 8°. [3]
- Report relative to the situation among the Navajo Indians in New Mexico and Arizona. *n.t.p.* [Wash., 1892.] 8°. 16 p. (52d Cong. 1st sess. Sen. doc., no 156.) [3]
- Rules for Indian schools, with course of study, list of text-books, and civil service rules. Wash., 1892. 8°. 47 p. [3]

Office of Internal Revenue.

- Appendix to the Gaugers' weighing manual, embracing regulations for determining the taxable quantity of distilled spirits by weighing, *etc.* June 4, 1892. Wash., 1892. 12°. 163 p. (Series 7, no. 11, revised. Supplement no. 2.) [3]
- Catalogue of books and blanks and laws and regulations prepared for the use of officers of internal revenue. March 1892. Wash., 1892. 8°. 49 p. (No. 155, revised.) [3]
- The collection of internal revenue and the condition of the service. Report of J. S. Miller, Commissioner, to Secretary of Treasury, July 21, 1893. Wash., 1893. 8°. [3]
- Regulations and instructions concerning the tax on distilled spirits under the revised statutes of the United States and subsequent acts. May 3, 1890. Wash., 1891. 8°. 214 p. (Series 7, no. 7, revised.) [3]
- Regulations concerning bounty on maple sugar under the provisions of the act of Congress approved Oct. 1, 1890. Feb. 8, 1893. Wash., 1893. 8°. 16 p. (Series 7, no. 17, revised. Supplement no. 1.) [3]
- Regulations concerning rectifiers and wholesale liquor dealers' notices, returns and packages, *etc.* Sept. 29, 1892. Wash., 1892. 8°. 20 p. (Series 7, no. 7, revised. Supplement no. 2, revised.) [3]
- Regulations for the issue of certificates of residence to Chinese laborers, and Chinese persons other than laborers, under the provisions of the act of May 5, 1892. Wash., 1893. 8°. 9 p. (Series 7, no. 18, [revised].) [3]
- Regulations relative to the bounty on sugar of domestic production. Aug. 18, 1892. Wash., 1892. 8°. (Series 7, no. 17, revised.) [3]
- *Same.* Additional regulations. Aug. 11, 1893. Wash., 1893. 8°. 6 p. (Series 7, no. 17, revised. Supplement no. 2.) [3]
- Regulations relative to the determinations alongside of or on board the exporting vessel by collectors of customs of the taxable quantity of distilled spirits exported under internal-revenue laws. *n.t.p.* [Wash., 1892.] 8°. 2 p. (Series 7, no. 4, revised. Supplement no. 1.) [3]
- Report of the Commissioner, June 30, 1864, 67, 92. Wash., 1865-92. 3 v. 8°. [1, 3]

Entitled "Report, *etc.*, on the operations of the internal revenue system," 1864, 67.

Office of Naval Intelligence.

- Coaling, docking, and repairing facilities of the ports of the world, with analyses of different kinds of coal. 3d ed. Wash., 1892. 8°. 332 p. [3]

United States. Office of Naval Intelligence, continued.

- General information series, no. 10-11. Information from abroad. July 1891-92. Wash., 1891-92. 2 v. 8°. Folded maps, plates. [3]

Contents.

- No. 10. The year's naval progress.
- 11. Notes on the year's naval progress.

- War series. No. 4. Information from abroad. Wash., 1893. 8°. Folded maps and illus. [3]

Contents.

- No. 4. *Sears, J. H., and Wells, B. W., Jr.* The Chilean revolution of 1891.

Office of Standard Weights and Measures.

- On the reduction of hydrometer observations of salt water densities. Submitted Feb. 18, 1890, by O. H. Tittmann. Appendix no. 6. Report for 1891. Wash., 1892. 8°. (5) p. [3]

Ordinance of 1787.

- See Old South Leaflets.

Ordnance Department.

- Annual report of the Chief of Ordnance, June 30, 1892. Wash., 1892. 8°. Folded plates. [3]
- Letter of the Secretary of War transmitting a copy of a report by C. E. Dutton on the Nicaragua Canal. *n.t.p.* [Wash., 1892.] 8°. 24 p. (52d Cong. 1st sess. Sen. miscel. doc., no. 97.) [3]
- Notes on the construction of ordnance. No. 61-62. *n.t.p.* [Wash., 1892-93.] 4°. Plates. [3]
- Report of the tests of metals and other materials for industrial purposes made with the United States testing machine at Watertown Arsenal, Mass., June 30, 1890. Wash., 1891. 8°. Illus. [3]

Patent Office.

- Annual report of the Commissioner, 1891-92. Wash., 1892-93. 2 v. 1. 8°. [3]
- Decisions of the Commissioner of Patents and of United States courts in patent cases, 1890-91. Wash., 1891-92. 2 v. 8°. [1]
- Official gazette. Vol. 56-60. July 1891-Sept. 1892. Wash., 1891-93. 5 v. 1. 8°. Illus. [3]
- *Same.* Supplement, containing the revised classification of subjects of invention arranged alphabetically, Jan. 1, 1893. Wash., 1893. 1. 8°. 38 p. [3]
- Specifications and drawings of patents issued for June 1891-March 1892. Wash., 1891-92. 10 v. in 20. 1. 8°. Plates. [3]
- See Knight, G. H.

Paymaster-General's Office.

- Quarterly station list of the officers of the Pay Department, United States army. July 1, 1893. *n.t.p.* [Wash., 1893.] 8°. [3]

Pension Office.

- Bureau of Pensions, its officers and their duties. The manner in which the work of adjudicating claims is performed. Wash., 1893. 8°. 97 p. [3]
- Laws governing the granting of army and navy pensions, with the regulations relating thereto. Compiled in the law division of the Bureau of Pensions. G. B. Raum, Commissioner. Wash., 1892. 8°. 188 p. [3]
- Report of the Commissioner of Pensions to the Secretary of the Interior, June 30, 1892. Wash., 1892. 8°. [3]
- See, back, Congress, — *Department of the Interior.*

President.

- Message [and accompanying documents] from the President to the two houses of Congress, 1849-50, [55], 58-60, [62]. Wash., 1849-62. 8 v. 8°. Folded maps. [3]

Namely.

- 1st session, 31st Congress, 1849-50, part 1-2.
- 2d session, 31st Congress, 1850-51.
- 1st session, 34th Congress, 1855-6, part 1.
- 2d session, 34th Congress, 1858-9, part 1.
- 1st session, 36th Congress, 1859-60, part 1.
- 2d session, 36th Congress, 1860-61, part 1.
- 3d session, 37th Congress, 1862-63, part 1.

United States. President, continued.

- Message in response to Senate resolution of Feb. 24, 1892, relative to negotiations for reciprocal trade with Canada. *n.t.p.* [Wash., 1892.] 8°. 47 p. (52d Cong. 1st sess. Sen. doc., no. 114.) [3]
- *Same.* Message in further response to Senate resolution of Feb. 24, 1892. *n.t.p.* [Wash., 1892.] 8°. 11 p. (52d Cong. 1st sess. Sen. doc., no. 114, part 2.) [3]
- Message to Congress, 2d session, 52d Congress, 1892; 1st session, 53d Congress, 1893. Wash., 1892-93. 1. 8°. [3]
- Message to the two houses of Congress at the commencement of the 2d session of the 35th Congress, [1858-59]; 2d session, 37th Congress, [1861-62]; 3d session, 37th Congress, [1862-63. 2 v.] Wash., 1858-62. 4 v. 8°. [3]
1861-62, entitled "Vol. 1."
- *Same.* 2d session, 39th Congress, [1866-67], with the reports of the heads of departments and selections from accompanying documents, ed. by B. P. Poore; 2d session, 40th Congress, [1867-68]; 2d session, 41st Congress, [1869-70]; 3d session, 41st Congress, [1870-71]; 2d session, 42d Congress, [1871-72]; 3d session, 42d Congress, [1872-73]; 1st session, 43d Congress, [1873-74]; 2d session, 43d Congress, [1874-75]; 1st session, 44th Congress, [1875-76]; 2d session, 44th Congress, [1876-77]. Wash., 1867-76. 10 v. 8°. [3]

Lettered "Abridgment."

- Message relative to the regulations concerning the transportation of imported merchandise and domestic products from one port in the United States over Canadian territory to another port therein and the further requirements of such traffic. *n.t.p.* [Wash., 1893.] 8°. 28 p. (52d Cong. 2d sess. Sen. doc., no. 40.) [3]
- Message respecting the relations with Chile, with the diplomatic correspondence, the inquiry into the attack on the seamen of the *Baltimore*, etc. Wash., 1892. 8°. xiv, 664 p. Folded map. (52d Cong. 1st sess. Exec. doc., no. 91.) [3]
- Message transmitting a treaty of annexation concluded on the 14th day of Feb., 1893, between the United States and the provisional government of the Hawaiian Islands. *n.t.p.* [Wash., 1893.] 8°. 69 p. (52d Cong. 2d sess. Sen. doc., no. 76.) [3]
- Message transmitting further correspondence respecting the relations with Chile. Wash., 1892. 8°. (1), 10 p. [3]
- See Clay, H.; — McKee, T. H.; — United States. Congress.

Puyallup Indian Commission.

- Report of the Commission, and accompanying papers. *n.t.p.* [Wash., 1892.] 8°. 90 p. Folded map. (52d Cong. 1st sess. Sen. doc., no. 34.) [3]

Quartermaster-General's Office.

- Annual report, June 30, 1892. Wash., 1892. 8°. [3]
- Regulations, rules, decisions and memoranda pertaining to clothing and equipage supplies of the army. Wash., 1892-93. 8°. [3]
- Roster of officers of the Quartermaster's Department, with their rank, grade, station, address, etc., Aug. 1—Sept. 1, 1891, Dec. 1, 1891—Sept. 1, 1892, Dec. 1, 1892, Feb. 1—May 1, July 1, 1893. *n.t.p.* [Wash., 1891-93.] 12°. [4]

Railway Mail Service.

- Report of the General Superintendent, June 30, 1892. Wash., 1892. 8°. [3]

Record and Pension Office.

- Report of the Chief of the Office, [Nov. 1, 1892]. *n.p.*, 1892. 8°. [3]

Revenue Marine Service.

- Annual report of operations, June 30, 1891. Wash., 1891. 8°. [3]
- Register of the officers and vessels of the United States Revenue-Cutter Service, July 1, 1893. Wash., 1893. 8°. 22 p. [3]
- See, back, Congress.

United States, *continued.**Sanitary Commission.*

— See Evans, T. W.

Signal Service.

- Charts showing the isobars, isotherms, and winds in the United States for each month, Jan. 1871—Dec. 1873. Wash., 1891. 4°. (36) p. [3]
- Extract no. 11 from Annual report, 1891. Report of O. L. Fassig, bibliographer and librarian. Wash., 1892. 8°. (24) p. [3]
- Index of meteorological observations in the United States, from the earliest records to Jan. 1890. Compiled under the direction of A. W. Greely. Wash., 1891. obl. 8°. (285) p. [3]
- Mean temperatures and their corrections in the United States. Prepared under the direction of A. W. Greely by Alexander McAdie. Wash., 1891. 4°. x, 45 p. [3]
- Report of the Chief Signal Officer of the Army on the climatic conditions of Texas. Dec. 14, 1891. Wash., 1892. 4°. 120 p. Folded maps. (52d Cong. 1st sess. Sen. doc., no. 5.) [3]

Steamboat Inspection Service.

- Annual report of the Supervising Inspector General to the Secretary of the Treasury, June 30, 1892. Wash., 1892. 8°. [3]
- Circular. Amended steamboat rules and regulations, Feb. 14, 1893. *n.t.p.* Wash., 1893. 4°. 11 p. [3]
- Circular remitting rules of Board of Supervising Inspectors for lights on tows for further consideration, and canceling publication. *n.t.p.* [Wash., 1893.] 4°. 1 sheet. [3]
- General rules and regulations prescribed by the Board of Supervising Inspectors of Steam Vessels, as amended Jan. 1892. *h.t.p.* [Wash., 1892.] 8°. [3]
- *Same.* Amended Jan. 1893. *h.t.p.* [Wash., 1893.] 8°. [3]
- Laws governing the Steamboat-Inspection Service. Revised statutes, as amended 1881-92. Wash., 1893. 8°. [3]
- Proceedings, 41st annual meeting of the Board of Supervising Inspectors of Steam Vessels, Jan. 1893; special meeting, May 1893. Wash., 1893. 3 v. 8°. [3]

Superintendent of Foreign Mails.

- Report to the Second Assistant Postmaster-General, 1892. Wash., 1892. 8°. [3]

Superintendent of Indian Schools.

- Report, with report of special agent of the Indian School Service, 1892. Wash., 1892. 8°. [3]

Superintendent of the Sequoia and General Grant National Parks.

- Report of the Acting Superintendent, 1892. Wash., 1892. 8°. [3]

Superintendent of the Yellowstone National Park.

- Report to the Secretary of the Interior, 1892. Wash., 1892. 8°. [3]

Superintendent of the Yosemite National Park.

- Annual report to the Secretary of the Interior, June 30, 1892. Wash., 1892. 8°. [3]

Supervising Architect.

- Annual report, Sept. 30, 1892. Wash., 1892. 8°. Illus. [3]

Supreme Court.

- Rules, adopted Jan. 7, 1884, and the rules of practice for the Circuit and District Courts of the United States in equity and admiralty cases, and orders in reference to appeals from Court of Claims. Wash., 1893. 8°. 8, 10, 83 p. [3]
- United States reports, v. 146-149. Cases in the Supreme Court, 1892-1893. J. C. B. Davis, reporter. [Vol. 39-42.] N. Y., 1893. 4 v. 8°. [1]
- See Lowery, W. Decisions on the law of patents for inventions, 132-139 U. S., 1889-90.

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Surgeon-General's Office.

- Index-catalogue of the library of the office. Authors and subjects. Vol. 13. Wash., 1892. 1. 8°. [3]

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- Report of the Surgeon-General of the Army to the Secretary of War, June 30, 1892. Wash., 1892. 8°. Illus. [3]
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- Wood, Horace G.** A practical treatise on the law of nuisances; including remedies therefor at law and in equity. 3d ed. enlarged. San Francisco, 1893. 2 v. 8°. xxxi, 754 p.; 755-1522 p. [1]
- A treatise on the limitation of actions at law and in equity. With the American and English statutes of limitations. [2d ed.] Bost., 1893. 2 v. 1. 8°. lxxxix, 472 p.; vii, 473-1041 p. [1]
- Wood, Roland A.** The Master's legacy. A sermon, Nov. 30, 1884, Worcester. Worcester, 1885. 8°. 11 p. [3]
- Wood, Will Converse.** The day of Heaven: a paper on the Sabbath. [Detroit Mich., 18—.] 8°. (40) p. Portrait. [3, *Author*.]
- Woodbury, Charles Jephtha Hill, and others.** The Saugus Iron Works. Addresses at the presentation to the city of Lynn of the first casting made in America, Nov. 21, 1892. Lynn, 1892. 8°. 16 p. illus. [3, *Author*.]
- Woodbury, Charles Levi.** Pemaquid and Monhegan. Address before the Hyde Park Historical Society, Feb. 26, 1891. *n.t.p.* [1891.] 8°. 18 p. [3, *Author*.]
- Woodworth, Charles L.** A commemoration discourse on the work and character of Ulysses Simpson Grant, Watertown, Aug. 8, 1885. Also prayer by L. T. Townsend. Bost., 1885. 8°. 28 p. [3]
- Wool.** *See* Boston. Home Market Club; — National Association of Wool Manufacturers; — National Wool Growers' Association; — United States. *Consuls*.
- Woonsocket, R. I. Universalist Sunday School.** Catalogue of the library. Oct. 1, 1889. Woonsocket, 1889. 12°. 21 p. [3]
- Worcester, Joseph Emerson.** *See* Jenks, Hickling and Swan.
- Worcester, Samuel Austin.** *See* Marshall, J.
- Worcester, Mass. Assessors.** List of the shareholders in the Worcester banks, May 1, 1873, 77, 80. *h.t.p.* [Worcester, 1873-80.] 8°. [4]
- *Auditor.* Tables showing the population, valuation, taxes and other statistics of Worcester, 1850-83. Worcester, 1884. 8°. 21 p. [4]
- *Board of Health.* Annual report, Nov. 30, 1886-87. Worcester, 1887-88. 8°. [4]
- — Mortality report for April-May 1892. *n.t.p.* [Worcester, 1892.] 1. 8°. [3]
- — Regulations. Worcester, 1880. 12°. 15 p. [4]
- — *Same.* Rules and regulations, 1884. Worcester, 1884. 12°. (1), 8 p. [4]
- *City Government.* Committees, rules and orders, etc., 1891. [Worcester, 1891.] 32°. 44 p. [3]
- *City Hospital.* 22d annual report of the trustees, Nov. 30, 1892. Worcester, 1893. 8°. Folded plan and illus. [3]
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- *English High School.* Dedication of the school, Sept. 5, 1892. *h.t.p.* [Worcester, 1892.] 8°. 76, (4) p. Plans and illus. [3]

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- **Fire Department.** Annual report of the chief engineer, Nov. 30, 1888. Worcester, 1889. 8°. [3]
- — **Charter, by-laws, etc.** Worcester, 1838. 24°. 20, (4) p. [3]
- **Free Public Library.** [33d] annual report, Nov. 1892. Worcester, 1893. 8°. [3]
- **School Committee.** Organization of the school committee and the public schools, Jan. 1892. *n.t.p.* [Worcester, 1892.] narrow 16°. 16 p. [3]
- — **Rules of the school board and regulations of the public schools.** Revised Dec. 1882. Worcester, 1882. 8°. 22 p. [4]
- **See Berry, J. M.; — Worcester Canadien.**
- **Board of Trade.** A tribute to the Columbian year by the city of Worcester. With an alphabetical index of its productions. Worcester, 1893. l. 8°. 200 p. illus. [3, *Stephen Salisbury, Worcester.*]
- **Central Church.** Installation of Rev. Edward M. Chapman as the associate pastor, Dec. 22, 1892. [Worcester, 1892.] 24°. (3) p. [3]
- **Children's Friend Society.** 44th annual report, 1893. Worcester, 1893. 8°. [3]
- **Evening Schools.** Questions for written examinations, Feb. 29—March 3, 1892. *h.t.p.* Worcester, 1892. 8°. 13 p. [3]
- **Fire Society.** 100th anniversary. Address by G. F. Hoar, poem by J. D. Washburn. Worcester, 1893. 8°. 35 p. [3]
- **Home Co-operative Bank.** By-laws, [officers, *etc.*, 1887-88]. Worcester, 1887. 16°. 19 p. [3]
- **Mechanics Savings Bank.** Act of incorporation, by-laws, officers, catalogue of members, *etc.* Worcester, 1883. 24°. 22 p. [3]
- **Post-Office.** Handy book of the postal service. [Worcester, 1887.] 16°. 96 p. [3]
- **St. John's Church.** [Programme of services], Christmas eve, 1892. *n.t.p.* [Worcester, 1892.] 8°. (4) p. [3]
- **Second Congregational Church.** *See Bancroft, A.*
- **Second Parish.** Catalogue of the Bangs Library. Worcester, 1877. 16°. 37 p. [3]
- — **Report of the committee on expenditures.** Worcester, 1866. 8°. 11 p. [3]
- **State Temperance Convention, June 1852.** Massachusetts anti-liquor law; with analysis and exposition, also proceedings of State Temperance Convention, June 23-24. Bost., 1852. 8°. 36 p. [2]
- **Young Men's Library Association.** Catalogue of the library, with the act of incorporation, by-laws, list of officers, *etc.* Worcester, 1853. 12°. 34, (2) p. [3]
- Worcester Almanac, Directory and Business Advertiser, 1853, 55-56.** By H. J. Howland. Worcester, [1853-56]. 3 v. 24°. [3]
- Worcester and Baldwinville Railroad.** *See Ashburner, S.*
- Worcester and Nashua Railroad Company.** 36th annual report of the directors, Sept. 30, 1883. Worcester, 1883. 8°. [3]
- **Return, [with list of stockholders].** *n.t.p.* [Worcester, 1865.] 12°. 20 p. [3]
- Worcester Canadien, Le.** Guide et directoire des Canadiens de Worcester. 3e-4e éd. [Vol. 3-4. 1888-89-90.] Worcester, 1888-90. 2 v. 12°. [3]
- Worcester Central Association.** Resistance to slavery every man's duty. Report on American slavery, March 2, 1847, [by George Allen]. Bost., 1847. 8°. 40 p. [2]
- Worcester Commercial and Board of Trade Bulletin.** Vol. 1, no. 1-2, May-June 1892. *n.t.p.* [1892.] 4°. Portraits and illus. [3]
- Worcester Continentals.** Charter and by-laws, 1890. Worcester, 1890. 16°. 43 p. [3]
- Worcester County Auxiliary Colonization Society.** Report of the managers, annual meeting, Worcester, Dec. 14, 1831. Worcester, 1832. 8°. [3]

- Worcester County Horticultural Society.** Transactions, 1892-93. Worcester, 1893. 8°. [3]
- Worcester County Institution for Savings.** Act of incorporation and by-laws, with the act to regulate institutions for savings. Worcester, 1834. 24°. 16 p. [3]
- Act of incorporation, laws concerning savings banks, by-laws, [and] a catalogue of members. Worcester, 1843. 16°. 28 p. [3]
- Worcester County Mechanics Association.** Catalogue of the library, April, 1857. Worcester, [1857]. 12°. 83 p. [3]
- Worcester (Mass.) Directory,** 1866. By H. J. Howland. Worcester, [1866]. 8°. Folded map. [4]
- *Same.* No. 50. Jan. 15, 1893. Worcester, 1893. 8°. Folded map. [1]
- Worcester Horse Railroad Company.** 1st annual report of the directors, Jan. 11, 1864. Worcester, 1864. 8°. 7 p. [3]
- Worcester Polytechnic Institute.** 23d annual catalogue, 1893. Worcester, 1893. 8°. Illus. [3]
- Worcester Rural Cemetery.** See Lincoln, L.
- Worcester South Agricultural Society.** 29th annual report, with constitution, by-laws, etc. Southbridge, 1883. 8°. [4]
- World Almanac,** 1893. [N. Y., 1893.] 12°. 432 p. [1]
- Wright, Carroll Davidson.** Address, celebration of the beginning of the 2d century of the American patent system, Washington, April 8-10, 1891. Wash., 1892. 8°. (34) p. [3, *Author.*]
- The Amalgamated Association of Iron and Steel Workers. Reprinted from the Quarterly Journal of Economics for July, 1893. Bost., 1893. 8°. 35 p. [3, *Author.*]
- A list of the works of C. D. Wright. 8°. 2 p. [3]
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- Wright, Elizur.** Appeals for the Middlesex Fells and the forests, with a sketch of what he did for both, by Ellen Wright. Medford, 1893. 12°. xxiv, 156 p. [3]
- Wright, John A.** How to get good judges; a study of the defects of the judicial systems of the states, with a plan for a scientific judicial system. San Francisco, 1892. 8°. 85 p. [3, *Author.*]
- Wyoming. Attorney General.** Biennial report, Jan. 2, 1893. Cheyenne, 1893. 8°. [3]
- *Governor.* Message of F. E. Warren to the 1st Legislative Assembly, Nov. 12, 1890. Laramie, 1890. 8°. 24 p. [4]
- Message of J. E. Osborne to the 2d Legislature, [1893]. *h.t.p.* [1893.] 8°. 20 p. [3]
- *Legislature.* School laws, March 1, 1893. Compiled by S. T. Farwell. Cheyenne, 1893. 8°. (2), 80 p. [3]
- Session laws, 2d Legislature, Jan. 1893. Laramie, 1893. 1. 8°. [2]
- *Secretary of State.* Biennial report, Sept. 30, 1892. Laramie, 1893. 8°. [2]
- *State Auditor.* Annual report, Sept. 30, 1892. Cheyenne, 1892. 8°. [3]
- *State Engineer.* 1st biennial report, 1891-92. [With appendix.] Cheyenne, 1892. 8°. 86, lxxi p. Folded maps. [3]
- *State Superintendent of Public Instruction.* Biennial report, 1890-92. Cheyenne, 1892. 8°. [3]
- Text books. *n.t.p.* [Cheyenne, 1893.] 8°. (3) p. [3]
- *Supreme Court.* Reports of cases in the Supreme Court of the territory and of the state of Wyoming. By the editorial staff of the National Reporter System. Vol. 3. 1883-92. St. Paul, 1893. 8°. [2]
- See Pickering, T.;— United States. *Department of Agriculture.*
- Yachtsman's Annual Guide and Nautical Calendar,** 1891-92. Bost., [1891-92]. 2 v. 8°. Portraits, charts and illus. [4]
- Yale University.** Bibliographies of the present officers, with the bibliography of President Porter. *n.p.*, 1893. 8°. 160 p. [3]

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- Catalogue, 193d year, 1892-93. New Haven, 1892. 8°. Folded map. [3]
- Obituary record of graduates deceased during the academical year ending June, 1893. No. 3 of 4th printed series, and no. 52 of the whole record. [New Haven, 1893.] 8°. [3]
- Report of the president for the year ending Dec. 31, 1892. *n.p.*, 1893. 8°. [3]
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- *Observatory*. Report, 1892-93, by the board of managers of the Observatory to the president and fellows. *h.t.p.* [1893.] 8°. [3]
- *School of Fine Arts*. [Course of instruction], 1892-93. New Haven, 1892. 8°. [3]

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Year Book and Almanac of Newfoundland for 1893. With a directory of towns, villages, *etc.* St. John's, 1893. 8°. [2]

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Herausg. von Oekonomierath Müller. 62 er Jahrgang, 1892. Darmstadt, [1892].
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M A P S.

- Barbados.** A topographical map of the island of Barbados, based upon Mayo's original survey in 1721 and corrected to 1846. By Sir R. H. Schomburgk. Scale, 2 in.=1 English mile. Size, 47×35½ in. [1]
- Barnstable, Mass.** [View of] village of Barnstable. Published by A. F. Poole, Brockton. G. H. Walker & Co., lith. Bost., 1884. Size, 10×31.8 in. [1]
- Berkshire County, Mass.** [Map of Berkshire County.] By G. H. Walker & Co. Bost., 1893. Scale, [about 2 m.=1 in.]. Size, 27.5×18.7 in. [1]
- Boston, Mass.** Boston and vicinity. Published by G. H. Walker & Co. Bost., 1893. Scale, [1200 ft.=1 in.]. Size, 59×49 in. [1]
- Map showing the terminal facilities of Boston. By G. H. Walker & Co. Bost., 1893. Size, 20.5×26.5 in. [1]
- New England Telephone and Telegraph Company. Jan. 1, 1893. Map of conduit system in Boston, not including Charlestown and Roxbury. G. H. Walker & Co., lith. Bost., [1893]. Size, 12.5×10 in. [3]
- Chicago, Ill.** World's Columbian Exposition, 1893. [Bird's-eye view of the Exposition grounds and buildings.] Engraved by J. A. Lowell & Co., Boston, by permission of the Winter's Art Litho. Co. of Chicago, 1891. Size, 16×26 in. [1]
- Cod, Cape.** Map of Cape Cod and vicinity, 1892. Published and copyrighted by Geo. H. Walker & Co. Bost. Scale, [2 m.=1 in.]. Size, 32.6×27.8 in. [1]
- Connecticut.** Map of Connecticut. Published by G. H. Walker & Co. Bost., 1893. Scale, [nearly 2 m.=1 in.]. Size, 39.1×54.4 in. [1]
- Connecticut Valley.** [Map of the Connecticut Valley. Published by G. H. Walker & Co.] Bost., 1893. Scale, [nearly 2 m.=1 in.]. Size, 28.1×19.1 in. [1]
- Cottage City, Mass.** [View of] Cottage City, Martha's Vineyard. From a sketch by A. F. Poole. G. H. Walker & Co., lith. Bost., 1887. Size, 16.5×24.5 in. [1]
- Framingham, Mass.** View of Framingham Common in 1808. Lithographed by the New England Lithographic Co., Boston, 1872, from the original painting in water colors by D. Bell. Size, 13×21.8 in. [1]
- [View of the] camp at Framingham, First Brigade, Mass. Vol. Militia, June 9-13, 1885. Published, 1885, by A. F. Poole & Co., Brockton. G. H. Walker & Co., lith., Bost. Size, 15.5×23.5 in. [1]
- [View of the] camp at Framingham, Second Brigade, Mass. Vol. Militia, July 21-25, 1885. Published, 1885, by A. F. Poole & Co., Brockton. G. H. Walker & Co., lith., Bost. Size, 15×23.4 in. [1]
- Gloucester, Mass.** [View of] Magnolia, Gloucester. G. H. Walker & Co., lith. and pub. Bost., 1887. Size, 10.5×19 in. [1]
- Hingham, Mass.** First Corps Cadets, Massachusetts Volunteer Militia. [View of] encampment at Hingham, July 13-18, 1885. Pub. by A. F. Poole & Co., Brockton, 1885. G. H. Walker & Co., lith., Bost. Size, 9×23 in. [1]
- Magnolia, Mass.** See Gloucester, Mass.

Maine. Map of the coast of Maine, eastern part. Published by G. H. Walker & Co. Bost., 1893. Scale, [4 m.=1 in.]. Size, 20.7×31 in. [1]

— Map of the coast of Maine, western part. Published by G. H. Walker & Co. Bost., 1893. Scale, [4 m.=1 in.]. Size, 20.7×30.5 in. [1]

Marblehead, Mass. [View of] The Farms. 1886. Published by O. W. Walker, Bost. Size, 13.8×30 in. [1]

Massachusetts. Map of Massachusetts. Published by G. H. Walker & Co. Bost., 1891. Size, 39.7×63 in. [1]

Narragansett Bay. Narragansett Bay and vicinity. Published by G. H. Walker & Co. Bost., 1892. Scale, [nearly 2 m.=1 in.]. Size, 32.3×22.5 in. [1]

New Hampshire. Map of New Hampshire. Published by G. H. Walker & Co. Bost., 1893. [Scale, 3 m.=1 in.] Size, 62×32.4 in. [1]

North Shore and part of Middlesex County, Mass. By G. H. Walker & Co. Bost., 1893. Scale, [nearly 2 m.=1 in.]. Size, 20.3×28.6 in. [1]

Onset Bay Grove. See Wareham, Mass.

Sandwich, Mass. [View of] Sandwich Village looking west. Drawn and published by A. F. Poole, Brockton. G. H. Walker & Co., lith. Bost., 1884. Size, 10.7×18.4 in. [1]

South Weymouth, Mass. See Weymouth.

Suburban Railroad. Plan showing proposed extension of the Suburban Railroad from Newton Highlands to Belmont. [With type-written report of the survey] March 18, 1893. W. Veazie, C. Engr. Scale, 200 ft.=1 in. Size, 38×175.8 in. [3]

Tisbury, Mass. [View of] Vineyard Haven looking east. G. H. Walker & Co., lith. Bost., [18—]. Size, 14×18 in. [1]

Vineyard Haven, Mass. See Tisbury.

Wareham, Mass. [View of] Onset Bay Grove, Wareham. Published by O. W. Walker. G. H. Walker & Co., lith. Bost., 1885. Size, 17×24 in. [1]

Weymouth, Mass. [View of] South Weymouth from the fair grounds. G. H. Walker & Co., lith., Boston. A. F. Poole & Co., publishers, Brockton. 1885. Size, 20.3×24.5 in. [1]

Worcester County, Mass. Map of Worcester County. Published by G. H. Walker & Co. Bost., 1892. Scale, [1 $\frac{7}{8}$ m.=1 in.]. Size, 18×27 in. [1]

Wyoming, state. State of Wyoming. Compiled from the official records of the General Land Office, and other sources, under the supervision of A. F. Dinamore, principal draughtsman. Photo lith. and print. by Julius Bien & Co. N. Y., 1892. Scale, 12 m.=1 in. Size, 27.7×33 in. [3]



AMERICAN

SSION



1894.

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FOURTH REPORT

OF THE

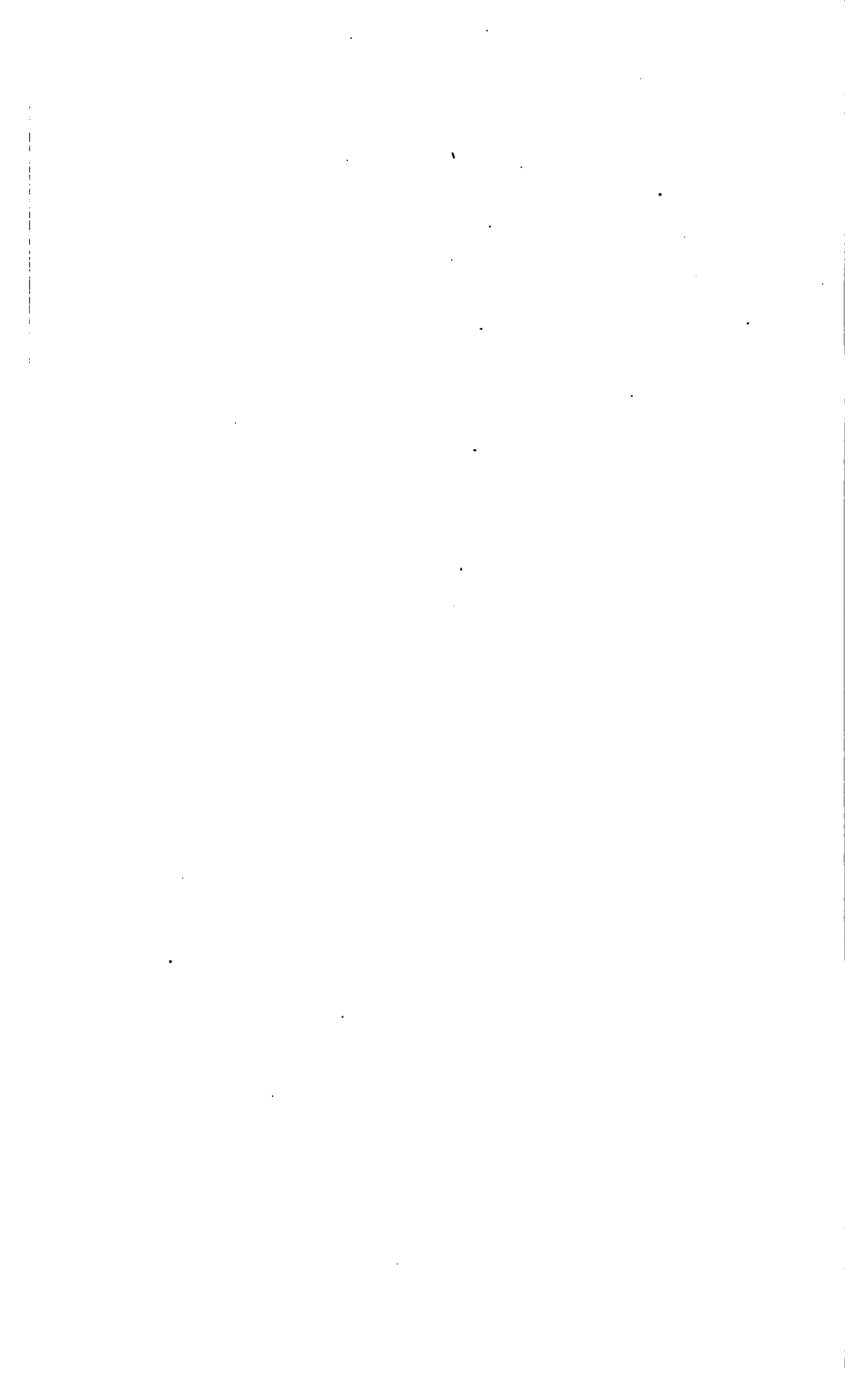
FREE PUBLIC LIBRARY COMMISSION

OF

MASSACHUSETTS.

1894.

BOSTON :
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,
18 POST OFFICE SQUARE.
1894.



MEMBERS OF THE COMMISSION.

HENRY S. NOURSE, Lancaster, term expires 1898.
Miss E. P. SOHIER, *Secretary*, Beverly, term expires 1897.
Miss ANNA E. TICKNOR, Boston, term expires 1896.
C. B. TILLINGHAST, *Chairman*, Boston, term expires 1895.
SAMUEL SWETT GREEN, Worcester, term expires 1894.



REPORT OF THE COMMISSION.

To the Honorable Senate and House of Representatives :

In accordance with the provisions of section 2 of chapter 347 of the Acts of 1890, the Free Public Library Commission herewith submits its fourth report. It includes a statement of the results accomplished during the year 1893.

THE COMMISSION.

The Hon. Henry S. Nourse, whose term expired Oct. 22, 1893, has been reappointed by the Governor for the full term of five years, and the original organization of the Commission remains unchanged. Regular meetings have been held at the State House once each month during the year.

FREE PUBLIC LIBRARIES ESTABLISHED IN 1893.

Information has been received that seven towns have accepted the provisions of chapter 347 of the Acts of 1890 during the year, and under this law the following towns have been supplied with books during the year : —

Berkley,
Chelmsford,
Deerfield,

Hardwick,
Hawley,
Heath,

Huntington,
Wellfleet.

The towns of Huntington, Hawley and Hardwick accepted the law in 1892, but did not officially notify the Commission that they had fully completed the necessary details until early in 1893. The towns of Dover and Granville have accepted the law, but have not yet been supplied with books, for the reason that in Dover a suitable room has not been provided for the library, and an informality in the method of choosing trustees remains to be remedied at the next town meeting in Granville.

Free public libraries which have no official connection with the towns have been established in Fairhaven and West Tisbury.

It thus appears that, including the fifty-two towns recorded in 1891 and 1892, the Commission has aided in establishing sixty free public libraries under this law, and two others will soon be added to the list.

TOWNS CLASSIFIED AS TO LIBRARIES.

The following classification of the towns, revised to date, shows the free library facilities they now enjoy : —

CLASS 1.

Towns which have libraries owned and controlled by the town, and free for circulation to all the people.

Abington,	Burlington,	Fitchburg,
Adams,	Cambridge,	Foxborough,
Agawam,	Canton,	Framingham,
Alford,	Carlisle,	Freetown,
Andover,	Charlemont,	Gill,
Arlington,	Charlton,	Goshen,
Ashburnham,	Chatham,	Gosnold,
Ashby,	Chelmsford,	Granby,
Ashland,	Chelsea,	Greenfield,
Athol,	Chesterfield,	Greenwich,
Attleborough,	Chicopee,	Groton,
Auburn,	Chilmark,	Groveland,
Avon,	Clinton,	Halifax,
Ayer,	Cohasset,	Hamilton,
Belmont,	Colrain,	Hampden,
Berkley,	Dalton,	Hanover,
Berlin,	Dana,	Hardwick,
Beverly,	Dedham,	Harvard,
Blackstone,	Deerfield,	Hatfield,
Blandford,	Douglas,	Hawley,
Bolton,	Dunstable,	Heath,
Boston,	East Bridgewater,	Holbrook,
Bourne,	Eastham,	Holden,
Boxborough,	Edgartown,	Holland,
Boylston,	Egremont,	Holliston,
Bridgewater,	Erving,	Hopedale,
Brimfield,	Essex,	Hubbardston,
Brockton,	Everett,	Hudson,
Brookfield,	Fall River,	Hull,
Brookline,	Falmouth,	Huntington,

Hyde Park,	North Attleborough,	Stoneham,
Lancaster,	Northborough,	Stoughton,
Lanesborough,	North Brookfield,	Sturbridge,
Leicester,	Northfield,	Sudbury,
Leominster,	North Reading,	Sunderland,
Leverett,	Norwood,	Sutton,
Leyden,	Oakham,	Swampscott,
Lowell,	Orange,	Taunton,
Ludlow,	Orleans,	Templeton,
Lunenburg,	Otis,	Tewksbury,
Lynn,	Oxford,	Tolland,
Lynnfield,	Paxton,	Topsfield,
Manchester,	Peabody,	Townsend,
Mansfield,	Pelham,	Tyngsborough,
Marblehead,	Pepperell,	Tyringham,
Marlborough,	Peru,	Upton,
Mashpee,	Phillipston,	Uxbridge,
Mattapoisett,	Plainfield,	Wakefield,
Maynard,	Plymouth,	Walpole,
Medfield,	Plympton,	Waltham,
Medford,	Prescott,	Warwick,
Medway,	Provincetown,	Watertown,
Melrose,	Quincy,	Wayland,
Mendon,	Reading,	Webster,
Merrimac,	Revere,	Wellfleet,
Middleborough,	Richmond,	Wenham,
Middlefield,	Rochester,	Westborough,
Middleton,	Rockland,	West Boylston,
Milford,	Rockport,	West Bridgewater,
Millbury,	Rowe,	West Brookfield,
Millis,	Rowley,	Westford,
Milton,	Royalston,	Westminster,
Montague,	Rutland,	Weston,
Monterey,	Sandwich,	Westport,
Mount Washington,	Saugus,	West Springfield,
Nahant,	Savoy,	West Stockbridge,
Natick,	Sharon,	Weymouth,
Needham,	Sheffield,	Whately,
New Ashford,	Shelburne,	Whitman,
New Bedford,	Sherborn,	Wilbraham,
New Braintree,	Shirley,	Williamstown,
Newburyport,	Shrewsbury,	Wilmington,
New Salem,	Somerville,	Winchendon,
Newton,	Southborough,	Winchester,
Norfolk,	Southbridge,	Windsor,
North Adams,	Southwick,	Winthrop,
Northampton,	Spencer,	Worcester,
North Andover,	Sterling,	Wrentham. — 234.

CLASS 2.

Towns which have free libraries in which the town has some representation in the management.

Acton,	Easthampton,	Lincoln,
Amesbury,	Enfield,	Littleton,
Barre,	Franklin,	Malden,
Bedford,	Georgetown,	Norton,
Belchertown,	Grafton,	Petersham,
Bernardston,	Haverhill,	Randolph,
Bradford,	Hingham,	Salem,
Braintree,	Holyoke,	Springfield,
Concord,	Lawrence,	Warren,
Cummington,	Lexington,	Woburn. — 31.
Danvers,		

CLASS 3.

Towns in which there are libraries to which the town appropriates money, but is not represented in the management.

Amherst,	Lee,	Princeton,
Ashfield,	Lenox,	Southampton,
Boxford,	Monson,	Stockbridge,
Cottage City,	Northbridge,	Wellesley,
Duxbury,	Palmer,	Westfield,
Gardner,	Pembroke,	Westhampton,
Great Barrington,	Pittsfield,	Worthington. — 22.
Hinsdale,		

CLASS 4.

Towns in which there are free libraries which have no connection with the town.

Barnstable,	Harwich,	Rehoboth,
Becket,	Hopkinton,	Scituate,
Billerica,	Ipswich,	Ware,
Buckland,	Kingston,	Wareham,
Easton,	Marion,	West Tisbury,
Fairhaven,	Methuen,	Yarmouth. — 20
Gloucester,	Raynham,	

CLASS 5.

Towns which have libraries owned by the town, but which charge a fee.

Conway. — 1.

CLASS 6.

Towns having no free library.

Acushnet,	Chester,	Dover,
Bellingham,	Clarksburg,	Dracut,
Brewster,	Dartmouth,	Dudley,
Carver,	Dennis,	Florida,
Cheshire,	Dighton,	Gay Head,

Granville,	Newbury,	Stow,
Hadley,	New Marlborough,	Swansea,
Hancock,	Norwell,	Tisbury,
Hanson,	Russell,	Truro,
Lakeville,	Salisbury,	Wales,
Longmeadow,	Sandisfield,	Washington,
Marshfield,	Seekonk,	Wendell,
Monroe,	Shutesbury,	West Newbury,
Montgomery,	Somerset,	Williamsburg. — 44.
Nantucket,	South Hadley,	

It appears from the above classification that of the 352 towns and cities in the State, 234 contain free public libraries that are entirely under municipal control; 31 contain libraries the use of which is entirely free, and in the management of which the municipality is in some form represented; 22 contain libraries to which the town or city appropriates money, but over which it has no control. Most of these libraries are free for circulation, but a few are free only for reference. Twenty towns contain free public libraries that are supported entirely by private benefaction, and with which the municipality has no official connection; one has a library which is owned and controlled by the town, but is not free, a small fee being charged the citizens for the use of the books; and 44 towns have no public library, though in a few of this class small association libraries exist.

All the towns in the State, except those enumerated in Class 1, seem to be entitled to the benefit of the State appropriation, if they will establish free town libraries under full municipal control.

AID TO TOWNS HAVING LIBRARIES.

Under the law of 1892, which authorized the Commission to furnish \$100 worth of books to any town whose valuation does not exceed \$600,000 which maintained a free library before the law of 1890 went into effect, books have been supplied to nineteen towns, as follows: —

Ashby,	Lanesborough,	Sunderland,
Auburn,	Middlefield,	Tyngsborough,
Bolton,	New Braintree,	Warwick,
Dunstable,	New Salem,	Wenham,
Eastham,	Orleans,	Whately. — 19.
Erving,	Rochester,	
Gill,	Rutland,	

The following towns are still entitled to the benefit of this law : —

Boylston,	Halifax,	North Reading,
Brimfield,	Mendon,	Paxton,
Burlington,	Middleton,	Phillipston,
Carlisle,	Millis,	Rowe,
Chesterfield,	Norfolk,	Royalston. — 15.

LIBRARY MAP.

Accompanying this report is a reduced copy of the map prepared for the World's Columbian Exposition at Chicago, showing at a glance which of the towns in the State have free public libraries and the number of volumes in each library at the beginning of the year 1893, when the map was prepared. It must be borne in mind that in the making of this map, and in all the statistics prepared or published by this Commission, reference is only made to libraries in which all the people have rights and privileges without the payment of any fee.

SITES FOR PUBLIC LIBRARY BUILDINGS.

The Commission recommends the passage of a law whereby the superiority or dominion of the sovereign power over all the property within the State, by which it is entitled to appropriate, by constitutional agency, any part necessary to the public good, shall be extended so that towns and cities may take land for building sites for free public libraries in the same manner that land may be taken under existing laws for the purposes of school buildings.

LIBRARIES AND SCHOOLS.

Town libraries have been urged by the Free Public Library Commission to make as exhaustive collections as possible of matter of local historical or geographical interest. They have been advised to save carefully copies of all printed reports and other documents issued by the municipalities, histories and other books relating to the towns, pamphlets of local interest, manuscripts containing biographical or historical material regarding persons, houses or localities, maps and plans, and everything regarding or representing the literary, scientific or other work of present or former residents.

The Commission now suggests that an excellent way of bringing about the close connection between libraries and schools, which is generally conceded to be desirable, would be to utilize the collections, when made, in promoting a spirit of investigation among teachers and scholars, and awakening an interest in history. The teacher of a school would have, in the first place, to become acquainted with the materials at command. She should then excite an interest by describing some exciting or pleasant incident in the history of the town or by reading some well-written passage from a pamphlet, book, or manuscript. Chapters in local history might sometimes be used in the place of reading-books by pupils, in class work. When interest has been aroused set the children at work using material at hand, old newspapers, books, pamphlets, etc., to make investigations regarding things that have occurred in the place. Let them, when ready, give an account of the results of their inquiries, either by word of mouth or in the form of a written composition. Afterwards connect the doings of the towns in which the boys and girls live with those of neighboring or larger places and with the State and country. Places on the sea-coast could awaken interest in connection with foreign countries.

By studying, and making plans and maps, children may be excited to take a lively interest in the geography of the towns they live in, and by being led to see, by means of books used by themselves, or for them by teachers, and by excursions, the topographical and physical features of those towns, may have started in them the knowledge of the resources of the places and an interest in thinking about the connections of their parts, their relations to other towns and their facilities and prospects. By a judicious use of books from libraries, relating to local matters, important moral lessons may often be drawn in such a way as to become impressive to children and remain in their memories. Great good is done when a young person has become interested in making investigations. Let teachers, then, use library books in inciting pupils to make local and wider historical and geographical researches, and in this way try to start in them a taste for historical and other research and the habit of learning the meaning of the events of history and the actions of great men.

GIFTS AND NEW BUILDINGS.

The following gifts to libraries have come to the notice of the Commission during the year : —

AMHERST. A new library building was dedicated at North Amherst September 20. It is a wooden building thirty-six feet long and twenty-five feet wide, with a slate roof. It cost about \$2,500, the expense being partially defrayed by the following gifts: Mrs. Ellen E. Fisher, \$700; Rufus B. Kellogg Fund, \$150; Walter D. Cowles, \$150; town of Amherst, \$500; gifts from other sources, \$200.

AYER. The building erected by Mr. Frederick F. Ayer of New York for the public library of the town of Ayer has been completed, and will be open for use early in the year. It is built of Indiana limestone, sixty-three by forty feet, and has accommodations for twenty-five thousand volumes. The entire cost of the building and its fittings has been about fifty thousand dollars.

BARRE. The late Dr. Lucius T. Billings of Barre bequeathed \$1,000 to the Barre Library Association and also made the Association his residuary legatee.

BOSTON. Mr. W. C. Todd of Atkinson, N. H., has given the Boston Public Library \$50,000, to be so invested as to insure a permanent annual income of \$2,000, to be devoted to maintaining a newspaper reading room in which newspapers representing every large city in the world shall be kept on file.

CHARLEMONT. Mr. E. R. Goodnow of Charlemont gave \$8,000 to the town of Charlemont to build a town hall and library building, upon condition that the town should pay to him and his wife, as long as either should live, interest at the rate of five per cent. on the amount. The town accepted the offer and a neat building of brick with brown stone trimmings has been completed. The cost was about \$11,000, the balance having been raised by subscription.

DALTON. The Crane town hall and library building at Dalton was dedicated February 6. It is built of brick and Longmeadow stone, and is the gift of the members of the Crane family, who are natives of the town. It provides ample accommodation for the library and for the town business. Thomas G. Carson of Boston, formerly a paper manufacturer in the town, has given the library \$1,000 for the purchase of books.

FAIRHAVEN. Mr. Henry H. Rogers has presented to the town of Fairhaven one of the finest library buildings in the State, which

was dedicated January 30 as a memorial to his daughter, Miss Millicent Rogers, who died at Fairhaven in 1890. The structure is of granite; the design is very artistic and it is finished and furnished in the best taste. It cost about \$75,000 and will accommodate about sixteen thousand volumes. The donor has provided a fund of \$100,000, which is held in trust by the State to provide for the expense of the library in perpetuity.

GARDNER. Mrs. Alvin M. Greenwood has, in addition to her previous large gifts, presented \$1,000 for the purchase of new books to the Levi Heywood Memorial Library at Gardner.

GLOUCESTER. The contest over the will of the late Samuel E. Sawyer having been settled, the library will receive the large bequest intended for it, amounting to about \$120,000.

GROTON. The new public library building at Groton was dedicated May 18. It is built of brick, in the colonial style, and cost \$27,000, of which \$12,000 was the gift of Mrs. Charlotte Langdon Sibley, the widow of John Langdon Sibley, for many years librarian of Harvard College. It has capacity for about twenty-five thousand volumes.

HAMPDEN. The late Lucetta Howlett left by will a sum which is to be placed at interest until it shall amount to \$10,000, when it is to be used for the erection of a library building.

HANSON. The Wampotuck Library Association dedicated a new library building, which cost \$6,000, at South Hanson, November 21.

HARDWICK. The late Dr. Lucius F. Billings of Barre bequeathed \$1,000 to the town of Hardwick for a public library fund.

HAVERHILL. The late Hon. James H. Carleton left by his will \$15,000 to the Haverhill public library.

LEOMINSTER. The late Hon. Alvah A. Burrage of Boston bequeathed \$5,000 to the Leominster public library.

LYNN. The will of Mrs. Elizabeth Shute gives \$100,000 to the city of Lynn for a new public library building, as a memorial to her husband, and makes the library the residuary legatee of her estate. The late E. H. Ashcroft of Lynn bequeathed \$1,000 to the library.

MELROSE. The late William Bailey of Melrose bequeathed two shares of his estate, which will be worth at least \$1,000 each, to the free public library at Melrose.

NAHANT. The town of Nahant is erecting a new building for its public library, and appropriated \$8,250 for the purchase of the lot and \$40,000 for the erection of the building.

NEW BRAINTREE. The new town hall, which was dedicated at New Braintree September 12, contains rooms for the accommodation of the library, with shelving for five thousand volumes.

NEWBURYPORT. Mr. William C. Todd, a native of Newburyport, who some time ago set apart \$7,500, the income to be used in the purchase of magazines, papers, etc., for the reading room of the public library of Newburyport, has signified his intention of increasing the amount to \$10,000 and paying the money over to the city, the income to be used as heretofore.

NORTH ATTLEBOROUGH. Mrs. John A. Tweedy and Edmund Ira Richards of New York and Miss Hattie T. Richards of North Attleborough have purchased the site and will erect a \$25,000 free public library building thereon, as a memorial to their parents, the late Edmund Ira and Lucy M. Richards.

ROCKPORT. The contested will of Mr. Samuel E. Sawyer having been declared valid, the Rockport public library will receive \$4,000.

ROWLEY. The late J. Henry Stickney of Baltimore bequeathed \$2,000 to the free public library of Rowley.

SALEM. The Hon. A. A. Low of Brooklyn, N. Y., presented \$500 to the Salem public library, to be invested in books. The late Dr. Henry Wheatland, for many years president of the Essex Institute, bequeathed to that institution his entire library as a reference library, and the sum of \$15,000, to be invested until a fund of \$25,000 is accumulated, when the income is to be used for the care and preservation and increase of the library.

SCITUATE. Mr. Silas Pierce has erected a building for the Association Library at North Scituate. It cost about \$5,000 and is erected as a memorial to Mrs. Pierce.

SOUTHWICK. The town has appropriated \$1,500 for a library building.

SPRINGFIELD. The late Horace Smith of Springfield bequeathed \$50,000 to the Springfield Library Association.

STOW. The Randall Memorial Library Building at Stow has been completed. It is constructed of brick, after a neat design, in which beauty and utility are combined, and cost about \$12,000. The balance of the gift of \$25,000 will be used to purchase the books and provide for the future needs of the library. The gift is made by Miss Belinda Lull Randall, from the estate of her brother, the late Dr. John Witt Randall. The sister carries out Dr. Randall's wish, though it was not contained in his will.

UXBRIDGE. The town has voted to accept the gift of a \$25,000 library building, which is to be built within two years by Mr. E. C. Thayer of Keene, N. H., in memory of his parents, and to be called the Thayer Memorial Library Building. Mr. Thayer also proposes to give the town \$5,000 in trust, the income to be used

for the purchase of books. Mr. Moses Taft bequeathed \$1,000 to the library.

WARWICK. Mrs. Mary J. Draper has increased the fund left by her husband to \$500, the income of which is to be devoted to the purchase of agricultural and biographical books.

WEST BROOKFIELD. The late J. Henry Stickney of Baltimore bequeathed \$4,500 to the public library at West Brookfield.

TOWNS WITHOUT LIBRARIES.

The forty-four towns that still are without free public libraries contain an aggregate population of 60,929, according to the census of 1890, or less than $2\frac{1}{2}$ per cent. of the entire population. Thirty-six of them have a population of less than 2,000, and seventeen of them a population of less than 1,000 each. One town each is in Hampshire, Nantucket and Worcester counties, two each in Dukes, Middlesex and Norfolk, three each in Barnstable, Essex and Franklin, five in Plymouth, six in Bristol, seven in Berkshire and eight in Hampden.

Over a half million of dollars has been given by individuals for the purchase of books and the erection of library buildings in this Commonwealth during the past year.

The advice of the Commission has been sought by trustees and librarians upon the establishment of branch libraries and depositories, upon the most practicable methods of rendering the libraries serviceable to the schools and upon simple and economical methods of administration. The nature of the inquiries indicates the purpose of those who have the care of our free public libraries to so administer them that their privileges shall be most easily available to the largest number of the people.

C. B. TILLINGHAST,

Chairman.

ELIZABETH P. SOHIER,

Secretary.

HENRY S. NOURSE,

ANNA E. TICKNOR,

SAMUEL SWETT GREEN,

Commissioners.

ANNUAL REPORT

OF THE

ADJUTANT GENERAL

OF THE

Commonwealth of Massachusetts

FOR THE

• YEAR ENDING DECEMBER 30, 1893.

BOSTON :

WRIGHT & POTTER PRINTING CO., STATE PRINTERS,
18 POST OFFICE SQUARE.

1894.

ANNUAL REPORT.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Dec. 30, 1893.

To His Excellency WILLIAM E. RUSSELL,
Governor and Commander-in-Chief.

GOVERNOR :— I have the honor respectfully to submit my report for the year now ending.

MILITIA.

Chapter 367, Acts of the Legislature for the year 1893, made provision for additional non-commissioned officers required by the new United States Drill Regulations adopted, but which did not increase the number of enlisted men.

The vacancy of one company existing in the Sixth Regiment of Infantry, First Brigade, was filled by the acceptance of a company from South Framingham. The original vacancy of one company existing in the Naval Brigade was filled by the acceptance of a company from Springfield.

The maximum strength of the State force allowed now by law is 448 officers, 6,036 enlisted men. The number on the rolls at this date is : officers, 437 ; enlisted men, 5,581.

TOURS OF DUTY.

The annual encampments, drills and other duties of the militia were held in accordance with law, under General Orders Nos. 6 and 11, C. S.

January 11, two companies each of the Fifth and Ninth Regiments of Infantry were detailed to attend the funeral of the late Maj. James P. Frost of the Second Brigade.

January 16, a detail consisting of Brig. Gen. Benjamin F. Peach, Jr., and staff of the Second Brigade, the Sixth Regiment of Infantry, Troop F, Cavalry, and Battery

C, Light Artillery, was ordered to attend the funeral of the late Maj. Gen. Benjamin F. Butler, at Lowell, the Legislature having made an appropriation for that purpose.

Troop A, First Battalion of Cavalry, Capt. Daniel K. Emerson commanding, was detailed to escort Your Excellency on the occasion of your annual visit to Harvard College, June 28.

Under General Orders Nos. 3 and 13, C. S., regimental team matches and the State rifle competitions were held.

Details for funerals of enlisted men were ordered in Company H, Fifth Regiment of Infantry, and Company D, Ninth Regiment of Infantry.

Your Excellency, with members of your staff, attended the dedicatory ceremonies of the battle monument, at Trenton, New Jersey, on October 19, to which monument the State contributed a bronze statue.

At the breaking out of a fire in Boston on March 10, the various commands located within its limits reported at their armories without orders and offered their services to the city, thus demonstrating in a commendable manner their readiness for immediate response to sudden calls.

ENROLLED MILITIA.

Returns, required by law from cities and towns, show the number liable to a draft to be 391,323, being an increase over the previous year of 17,698.

RIFLE PRACTICE.

This important branch of the service has received earnest and careful attention under the efficient Inspector General of Rifle Practice, Col. William L. Chase. I refer you to his report for the details of the progress of the work, and the great gain in rifle efficiency.

HEAVY ARTILLERY.

Some progress has been made in this important branch, and after repeated attempts to obtain substantial help from the general government in the way of appliances (without success), an appropriation was granted by the Legislature,

by which models of heavy guns and mortars will shortly be placed in the armory on Irvington Street, when drills may be had without recourse to the forts in the harbor.

A room will be provided in the South Armory, Boston, where instruction will be given to officers in the scientific branches of the artillery service.

QUARTERMASTER'S DEPARTMENT.

During the year the militia has been furnished with brown canvas leggings, drawn from the general government.

In view of the probable issue by the United States of magazine rifles for infantry, it has been thought advisable not to draw more of the present Springfield arm, but allow the annual apportionment to the State by the government appropriation to accumulate, in order to draw the new magazine rifle when ready for issue.

If the State delegation in Congress would introduce a bill making provision for the exchange of present arms, gun for gun, for new of same pattern, it would be a move in the right direction, as within three years the new Springfield rifles now on hand at the Springfield Arsenal will become obsolete, and may as well be in use with the militia as in the government armories.

It would seem well, under the circumstances, to allow such exchange, and arm the State forces for once with rifles of one model.

In Table No. 5 will be found the property account of this department, showing the State and United States property for which this office is accountable.

The stables on the infantry line at the State camp ground have been enlarged to accommodate the horses of the mounted orderlies and buglers. The annual repairs on buildings have been made at a small cost.

By advice of the Attorney General's office, under an act of the Legislature, this department took land for a pumping station, with the right to lay pipes to Leonard's Pond, in rear of the State camp ground. Under this advice, the pumping station which has been erected saves the expense of transportation of pump and boiler, after each camp, to and from the pond.

The State property is in good condition; that in the hands of troops has received good care, and when losses have not been satisfactorily explained the cost of articles lost has been deducted from the officer's responsibility money. It is but fair to state that the losses have been quite small.

The matter of camp and garrison equipage must receive attention the coming year. It was found necessary to condemn five hundred and nine tents out of the number on hand, which have been in use from twelve to twenty years. New tents will have to be purchased, or wooden buildings supplied for headquarters in the place of tents. From the experience of the past ten years I am of the opinion that wooden headquarters would be on the side of economy, and their erection should receive consideration.

The commands now doing duty on the State camp ground are obliged to furnish their own mess tents. The erection of wooden mess houses for use of troops and the issue of rations by the State are matters for consideration and adoption.

Prior to the year 1883 the State rented portable wooden buildings for stables, at a rental amounting to an interest of twenty-five per centum on the cost of the permanent buildings erected that year, and which have cost but little in the way of repairs since completion.

While the expense of wooden structures seems large, the saving to the Commonwealth and the militia is sufficient compensation for the outlay, and is believed to be a true measure of economy. The old tents require much expenditure for repairs.

CAMP GROUND.

There has been little occasion for expense on the camp ground the past year, and its condition is such that, beyond the usual grading, it will require but little expenditure of money the coming year.

It is the opinion that the arsenal, with buildings and grounds contiguous, should be sold, and the property of the Commonwealth and that in the custody of the Quartermaster General removed to Boston as a matter of convenience and economy, its present distant location requiring the keeping

of two sets of accounts. If located in Boston, but one set will be needed. The constantly increasing expense for freight, expressage, carting and the keeping of horses incident seems to warrant the change.

The growth of the town has increased the value of the land for residential purposes, and it is believed that a suitable building can be obtained in Boston, at a low rental, which would simplify the business of the department and decrease the expense.

ARMORIES.

The armories erected under chapter 366, Acts of 1888, are in good condition. The armory at Lawrence has been finished and was occupied in March. A new armory under the same act is being erected in the city of Lynn. I am informed by the armory commissioners that it will be completed in the early spring. The detachment armory of Troop F, Cavalry, at Ayer, was discontinued early in the year and changed to Chelmsford Centre. Headquarters of Second Regiment of Infantry was changed from Holyoke to Springfield in February. Fair accommodations only have been provided during the year by the cities of Lynn, Springfield, New Bedford and Fall River for the new companies of the Naval Brigade. The town of Beverly has provided better accommodations for Company E, Eighth Regiment of Infantry. In the town of Waltham the armory was condemned and the company moved to another. These are the only changes reported to this department.

The armory rent rolls received have been examined and allowances made in accordance with accommodations furnished and reports of commanding and inspecting officers. The armory rent rolls, having been approved by the Commander-in-Chief, were forwarded to the Auditor's office for audit, the total amount being \$34,395.26; the appropriation was \$37,000.

The city of Fitchburg and the towns of Amesbury and Wakefield did not forward returns on the date required by law, and this department has not the power to allow the same.

The appropriation for care and furnishing armories

erected under chapter 366, Acts of 1888, was \$15,300 for the year, and the additional amount of \$1,800, appropriated in 1892 for the Lawrence Armory.

There has been expended of this as follows: Boston Armory (East and South), \$7,699.65; Worcester Armory, \$2,646.94; Lowell Armory, \$1,561.01; Fitchburg Armory, \$1,635.62; Lawrence Armory, \$3,544.43. The above amounts include everything but gas bills for December, which are not due until Jan. 1, 1894.

ADJUTANT GENERAL'S DEPARTMENT.

The accounts of the year have been prepared and certified to the Auditor for audit and payment, and the appropriations exhausted, except that for the incidental expenses of the office.

The following amounts have been expended: for pay, transportation, supplies and expenses of the militia, \$161,-357.83; on State camp ground, \$932.25; balance on hand at last report, from receipts for condemned property, \$67.09; sold condemned property during the year amounting to \$772.22; expended of this amount, on buildings for pumping station and repairs on buildings, \$754.13.

On Jan. 1, 1893, there was a balance to the credit of the State, at Washington, of the appropriation for arming and equipping the militia, of \$4,812.53; by the allotment to States, July 1, 1893, \$13,074.31 was added, making a total of \$17,886.84 to the credit of the State, against which there has been drawn for supplies issued during the year the sum of \$4,810.88, leaving a balance available of \$13,075.96.

The navy department, from the appropriation for the equipment of the naval militia, placed to the credit of the State this year the sum of \$5,190.75, which, added to the balance on hand January 1, \$78.08, made a total of \$5,268.83. From this there has been drawn supplies for the naval militia amounting to \$638.31, leaving an available balance of \$4,630.52.

I again repeat that the navy department is most liberal in its allowance for a small command, appropriating as it does nearly one-half as much as is allowed for the entire

military force in this State. It can be readily seen that this branch of the service receives care and attention from the general government which thoroughly equips it, while the land force has not appropriation enough, as it takes the entire annual apportionment to purchase one modern battery, and all of it to supply one thousand rifles of the pattern now in use.

Under the present annual appropriation the newly adopted rifle cannot be supplied until years have elapsed, and by that time the arm will have become obsolete. Several bills have been presented to Congress for relief, but in every case without success. When it is understood that the State cannot purchase or draw arms beyond the regular appropriations by Congress, and as the War Department cannot sell or exchange, it will be seen how powerless this department is to remedy the existing conditions.

The light batteries are old and obsolete, requiring many repairs, having been in use for many years, yet the Ordnance Department cannot loan or exchange old for new field carriages of same pattern in its possession but in good condition, which have been discarded and are stored away never to be used by the army.

I would suggest that the attention of the congressional delegation be called to this subject and their aid invoked in the passage of the bill now before Congress, known as House Bill No. 4291.

WAR RECORDS.

The usual routine work has been continued in this branch of the office at an expense for clerical service, books, stationery, etc., of \$5,300. This work has been greatly facilitated by the preparation of a card index to the rolls containing the names of soldiers enlisting to the credit of the Commonwealth during the Rebellion of 1861–65, and it is hoped that at some time not far remote this card system may be made of greater service, when it shall contain the full record of each individual in addition to the name.

The appropriation by the Legislature for the preparation of the index (chapter 67, Resolves of 1892; chapter 187, Acts of 1893) was \$2,175, and the expense \$1,790.21.

NAVAL RECORDS.

The naval war records are being carried forward towards completion with due care and correctness. Numerous records of service have been revised and corrected during the past year, consisting of errors of names and transposition of services of men under similar names. Additional records of enlistments continue to enlarge the list of sailors and marines, which add increased correspondence and work of compilation. The index of the entire complement is being revised and put in form, to be arranged in alphabetical order.

The appended list of officers, line, staff and warrant, both regular and volunteer, who served from 1861 to 1865, is considered quite complete from all official data on file at the Navy Department and in this office, and is interesting in showing the resources of the State during those years in supplying the demand with signal success in the various departments of the naval service. The maritime prestige of its volunteer officers of the line, the professional ability of the medical corps, the standard of the paymaster's department and of the engineers' corps, make a valuable record, and unprecedented in comparison with the population of the State at that time.

It may be well to state that an admiral held relative rank with general in the army; vice admiral with lieutenant general; rear admiral with major general; commodore with brigadier general; captain with colonel; commander with lieutenant colonel; lieutenant commander with major; lieutenant with captain; master with first lieutenant; and ensign with second lieutenant.

Staff officers in the navy held assimilated rank with the line, from captain to grade of second lieutenant, according to seniority of commission or appointment.

The regular officers who had their residence in Massachusetts show: rear admirals, 2; commodores, 5; commanders, 5; lieutenant commanders, 9; lieutenants, 13; master, 1; surgeons, 4; passed assistant surgeons, 9; assistant surgeons, 24; paymasters, 10; assistant paymasters, 3; chief engineers, 7; first assistant engineers, 10; second assistant

engineers, 21; third assistant engineers, 3; chaplain, 1; boatswains, 10; gunners, 13; carpenters, 11; sailmakers, 5.

Marine corps: lieutenant colonel, 1; first lieutenants, 2; second lieutenants, 3; midshipmen at Naval Academy and at sea, 53, making the total line, staff, warrant officers and midshipmen, 222.

The volunteer officers who had their residence in the Commonwealth and were appointed by the honorable Secretary of the Navy show: acting volunteer lieutenant commanders, 8; acting volunteer lieutenants, 61; acting masters, 268; acting ensigns, 497; acting masters' mates, 416; acting passed assistant surgeons, 5; acting assistant surgeons, 89; acting assistant paymasters, 116; acting chief engineers, 2; acting first assistant engineers, 34; acting second assistant engineers, 84; acting third assistant engineers, 239; acting boatswains, 4; acting carpenters, 3; acting gunners, 18; making a total of volunteers, line, staff and warrant officers, 1,844. Total number of officers, regular and volunteer, 2,066.

The appropriation for this work was \$2,000, and the expenses for the year \$1,996.70.

RECOMMENDATIONS.

That a mess kit be issued to companies, to be kept in the armories ready at hand for use of the militia when called out in any emergency that may arise; that the batteries of light artillery be repaired as far as possible to insure safety, and provision made for target practice with projectiles; that the wearing of full dress uniforms on all duty, whether or not it is advisable to have the major portion of State duty performed in fatigue and working suits (with a full and proper field equipment), with the view to educate the troops more fully in field and emergency duties, claim consideration; that the advisability of regimental or post camps should command attention; that the school for officers (advised by the board of officers on revision of regulations) be called early in the year; and that officers be required by orders to attend this school of instruction, which will tend to educate officers in details now neglected.

Attention is respectfully called to the disparity in rank

which exists under the law recently enacted, whereby the paymaster of an eight-company command outranks the paymaster of a twelve-company command, whilst the surgeon is reduced in rank.

It is recommended that section 29 of the Acts of 1893 be so amended as to give to the surgeon in the Naval Brigade the rank of lieutenant commander, corresponding with the rank of major held by all other surgeons in the militia, and that the rank of the paymaster be that of lieutenant, junior grade, corresponding with the rank of first lieutenant held by other paymasters in the militia service of the Commonwealth, and which was the intent at the time said law was framed.

The attention of commanding officers is directed to the recommendation of the commander of the Second Brigade in his report herewith, that some uniform method be prescribed for the care and arrangement of quarters, to the enhancement of the appearance of the camp, which meets the approval of this office.

The various reports required from the Surgeon General, Inspector General and commanding officers will be published in the printed report of this department.

In closing my report I desire to extend to Your Excellency my most profound appreciation of your kindness and consideration during the past three years of my service with you, and to extend to you my sincere thanks and good wishes as you leave the office of Governor of the Commonwealth.

I desire to thank the members of your staff for the many courtesies extended during three years of military duty.

Very respectfully,

Your obedient servant,

SAMUEL DALTON,

Adjutant General.

REPORT OF THE INSPECTOR'S DEPARTMENT.

COMMONWEALTH OF MASSACHUSETTS,
OFFICE OF INSPECTOR GENERAL,
BOSTON, Nov. 30, 1893.

Major General SAMUEL DALTON, *Adjutant General, Commonwealth of Massachusetts.*

SIR: — I have the honor to submit report of this office for the year 1893. The conditions existing in the service, and the present efficiency of the militia of this State, were brought clearly before you in my last report.

If the force is inadequate, the organization imperfect or the preparation and instruction incomplete, evils enough exist for correction.

Only so far as inspections develop inherent weakness, which may account for much that is unsatisfactory, is there any reason for more than a routine report upon a condition, apart from the causes which directly mould such condition.

Criticism is empty unless constructive as well as destructive. Therefore reference was made in the report for 1892 to such methods as would lead to improvement.

Reviewing the work of 1893 to come to any sound conclusion of the progress made, if any, it seems well to determine what the volunteer militia are for.

Under the statutes they exist: "To resist invasion, quell insurrection, aid in the suppression of riots, to assist civil officers in the execution of the laws of the Commonwealth, or in times of public danger they shall first be ordered into service."

There is therefore a definite duty assigned the State troops; upon them rests a serious responsibility. The militia stands as the strong arm of impartial justice. The loyal citizens who voluntarily devote their time, with much self-sacrifice, in patient preparation, through strict discipline, to be the firm reliance in any ultimate appeal to maintain law, order and good government.

Such a leaven in the community is of incalculable good. Drawn from the people, they become the proper allies, in a free country, of the administration chosen by the people. Knit together by the

regulations and customs of military service, intelligently led by competent officers who recognize the sacred trust of commission, and composed of those whose patriotism prompts enlistment, strictly unpartisan, they are the backbone of the rights of every citizen, the steady brake on thoughtless indiscretion, the present help in time of trouble.

Local interest in the neighborhood where the companies are recruited should keep the ranks filled with those keenly alive to the importance of peace within their border.

With thorough organization, the volunteer force, well handled upon a uniform system, would prove the best insurance against wanton sedition, the most efficient and conserving repressive power to suppress riotous outbreak.

Again, if brought abreast of the times, the militia would be of account as a first reserve to the Regular Army for such national defence as the future may have in leash. Every reason endorses the wisdom of a relatively small standing army in these United States, but common sense emphasizes the need of the wise alternative, a progressive militia, of public-spirited citizen soldiery, well equipped, well drilled and well led.

It would require 90,000 men to garrison the fortifications of the United States should such requisition arise; this work would fall largely to the militia, and substantially require the whole National Guard available, say 90 per cent. of the present enlisted strength.

THE MASSACHUSETTS VOLUNTEER MILITIA.

To such extent as the troops of Massachusetts have advanced to this essential state of preparedness, the force has realized the expectation promised by the excellent *personnel*, rank and file, who form the active militia.

In an official report it is necessary to consider what duties devolve upon State troops, and how far such are discharged.

I have the honor to express my belief that—

(1) Every reason exists for a militia instinct with soldierly vitality.

(2) That the Massachusetts volunteer militia, under your steady development, are in a far more efficient condition now than at any time since their formation.

(3) That their establishment on a thoroughly military footing has found permanent acceptance. That further progress is demanded.

(4) That their present advance in proficiency justifies the appropriation made for their maintenance and support.

(5) That manifest shortcomings should be promptly rectified.

With all that can be said in commendation of the present status of the service, it falls short in many ways of what the force should be and readily might be. The evolution of the citizen soldier is not yet complete. The service can be brought abreast of its present appearance, and made to square with what it pretends to be.

Referring once more to the several points outlined in my previous report:—

A. — Of the force :

1. Equipment.
2. Leadership.
3. Material in the ranks.
4. The position of the non-commissioned officers.
5. The handling of inefficient companies.

B. — Of the organization of the militia :

1. Staff appointments and their special duties.
2. Retired list.
3. Mounted arm.
4. Ambulance Corps.
5. Company management.

C. — Tours of duty :

1. Camps.
2. Rations.
3. Marches.
4. Field days.

A. — OF THE FORCE.

Called upon under great local excitement, the volunteer must be schooled to do his duty instinctively. All drill and instruction should lead up to competence in an emergency.

1. EQUIPMENT.

Whatever fits troops for more practical work on service is a step toward a better force.

The issue of canvas leggings, as recommended, has been suggested.

I have the honor to repeat my former recommendation that the thimble belt replace the present one, in which the cartridges are hard to get at.

The work of the Signal Corps in their distinctive sphere has shown decided progress. Their equipment is far from what it should be. Beyond the defects in their signalling outfit, it would seem to me desirable to arm them with the carbine. In any active

service the position of a signalman may often be far to the front and efficiency consists quite as much in reporting on what he sees of the enemy as in merely transmitting messages between the integral parts of a command. In such work he is likely to run against the advanced scouts of the enemy. He should be assured the chance to report this information to the main body.

With the present aggressive weapons of a flag, or a leaking oil can, he is somewhat handicapped. With the keenness developed by signalmen, their acute and instinctive observation, with the carbine they should be a match for the occasional scout or patrol encountered. With the relatively smokeless and noiseless powder of the near future, the signalman has even greater advantage, because he will move from vantage point to vantage point, and greater familiarity in topography will be of material assistance.

Certainly some arm of defence is desirable. The carbine is a fit weapon, because there are times when the signalman will be mounted, or should be; again, it is more than likely that bicycles will be introduced in the Signal Corps, as a ready means of rapid transportation.

I take this occasion to express my belief in the working suit, and it is to be hoped that the time may come when all the State troops may have a similar uniform for rough weather. Beyond the economic saving of the regular uniform, it would give the troops a change of uniform, which is very desirable should one suit get wet through.

The working suit can be compressed into small compass, and with a change of flannels, stockings, boots and a few necessary articles of toilet, be stowed for comfortable carriage. Restricting men to the fatigue uniform alone, or with the change to the senseless straight jacket of full dress, certainly leaves troops at a disadvantage for service, where they may be exposed to the inclemency of the weather. Fortunately the troops of this State have not been called out for such action.

The outdoor work of the militia comes in warm or temperate weather. Uniform and equipments are serviceable under such conditions. Is preparation made only for a camp campaign?

Even with the great-coat, winter duty would be severe on the men; the great-coat of the officer is warmer.

I recommend for your consideration the issue of jerseys, either as part of the State uniform or at the cost price, to companies or men who saw fit to buy them.

A jersey of medium weight could be worn singly in the summer, and the uniformity might permit drill, on the hottest days, without the blouse. The extra warmth, in winter, would offset the absence

of the waistcoat, and with a suitable under flannel, would fit the men for duty in rough weather.

The issue of rubber blankets, sanctioned by other States, if added to the outfit of companies, would add to their readiness for actual service.

The matter of suitable gloves for winter service has been brought to your attention.

The question of transportation of camp baggage remains *en l'air*. There should be established the proper allowance per company. Very little suffices for the needs of a *soldier*. It is unmilitary to encourage, or longer permit, anything beyond what is absolutely necessary on a tour of duty.

Some preparation should be made for the permanent provision of transport facilities for any emergency. An inexpensive method has been presented by the department.

2. Leadership.

The volunteer should be intelligently led, and to feel confidence in his officers they must possess more than the suffrages of their men.

A body of men ill trained and led by incompetent officers will be of no use, however well armed or quickly brought into action.

The rapid advance in the science of war imposes new standards, and demands higher requirements of officers. Not so much is expected of the volunteer as the regular, but the militia fills a place in the framework of government. The officers must know enough to discharge such military duties as come under their direction. No more is essential, but emphatically this much at the very least.

Now, the training of a militia officer should go deeper than the present accepted standard. The men they command are citizen soldiers, and it will not do to feel that any fancied greater individual intelligence will offset persistent preparation for action. The creditable or disastrous discharge of duty depends largely upon leadership, and the test of fitness for war is not the execution of drill movements, which is preliminary, but their application.

As the State sees fit to maintain a militia, it is the duty of the State to place the means to become competent within the reach of public-spirited citizens who give cheerfully of their time and thought and means as officers.

A course of instruction should be opened, at which officers voluntarily might attend.

What an example Massachusetts might set by a plain, straightforward step to afford officers of the militia the opportunity to live up to their commissions!

To make the most of our militia means, first of all, to raise to the highest attainable level the professional value of the officers. The officer in war has at once to lead and control those below him. This comes to him a trust, committed by higher authority; officers are the moral backbone of the service. "The officers and discipline are two names of the same thing."

There is such an earnest desire among officers to do their duty as well as they can, that it is not too much to hope for a cordial response to any move for their advancement. Such a step must rest with the State. There could be no better expenditure from the appropriation than the slight outlay to insure competence in officers to whom the service is entrusted, and upon whose efficiency the force stands or falls.

Officers, to properly command, should have more than a knowledge of drill regulations sufficient to pass the Examining Board, to be capable leaders of an organization liable to be called out for independent action. The care of the men under their charge justifies some elementary knowledge of military hygiene. A general knowledge is well condensed in the book prepared by Dr. Woodhull of the United States Army; the information therein would be useful for any man, and I recommend that in the examination for promotion cognizance be taken of the first principles of military hygiene, that the officers of this State be brought upon a thoroughly military footing. This does not imply any professional knowledge as such, but what every officer ought to know to whom a command is given. The details can be safely left in the hands of the admirable medical department in this State.

I heartily welcome the proposed Staff College, but earnestly urge that it be so thorough as to accomplish more than possible in a few evenings' attendance for lectures by volunteer officers.

3. *Material in the Ranks.*

There is always great difficulty in improving an old system. Surely the character of those who are accepted for State service should be taken into account.

Greater care in selecting recruits has led to a better *personnel* in the ranks. There is need of more caution to take in the most desirable and most stable material.

The discharge "for the good of the service" reflects directly upon the judgment of company commanders, and shows too little knowledge of the men accepted.

Discharges by reason of removal are inevitable to some extent, but could be pruned by limiting enlistment to such as had every reason to expect permanent residence.

Independent of the time thrown away on drilling men liable to drift away, and the consequent uncertainty of the effective strength of a command, the uniforming of such restless material is a great expense, and, as it is shown, useless, wasteful.

Again, it necessitates fitting out new men in old clothes, which tends to keep out of the ranks many good men. Some system by which a recruit might purchase at reduced cost his trousers at least, or blouse, cap and trousers, on the distinct understanding that they were to remain State property, would go far to overcome the present and natural scruples which militate against regimental enlistment.

Of the Awkward Squad.

Many companies suffer from the introduction of recruits in the ranks before elementary drill. The militia are not drawn from a leisure class, nor are all of them athletes. In their ordinary work, usually, only one set of muscles comes into use. As a result, certain movements and parts of the manual are difficult, even painful to some men. Their military education, physically, requires patience to overcome tendencies to slur and imperfectly master, the easy clean-cut snap characteristic of a thoroughly well-drilled company.

Apart from their soldierly duties and progress as efficient volunteers, the development of these unused and weaker muscles directly benefits their health and bodily vigor. Under consistent preliminary work in the awkward squad, left when these deficiencies have been overcome, the force would be better grounded for service. An inspection is often marred by a few men, not necessarily over-stupid or clumsy, but whose faulty set up and labored execution, carries its commentary on the officers who slight what stamps their own work with neglect in details eminently military. Whenever practicable, armories should have a gymnasium — nothing elaborate, but where the men can, and recruits should, exercise to some extent.

In some commands attention has been directed, and with good judgment, to this very practical work. However, gymnastics are not to show jumping or activity (certainly not running) before the enemy, but to harden the muscles of the men. With strength grows self-confidence; with self-confidence courage. A high general average is what is essential, rather than a group of notable athletes who carry the reputation of an organization beyond and out of sight of the real conditions. The days of a David and Goliath are past, and when armies meet again there will be a solemn reckoning of the use made of the means to insure fit preparation of rank and file.

The improvement noticed in 1892 has continued, and the material in the ranks is excellent on the whole.

4. *The Position of Non-commissioned Officers.*

Under the new drill regulations, as squad leaders, they have very important duties. As leaders of tent squads, upon them rests the responsibility of good order, and military silence after taps. It is their duty to see that the men of their squads go on duty properly uniformed. As possible officers they must get the knack of handling men and keeping control over them, and this is part of their duty as non-commissioned officers.

I have the honor to suggest that, with the recognition of the need of proficiency with the rifle, and the desirability of having some official on the range when firing is done for record (1) to coach the beginner; (2) to correct the faulty position of the non-marksman; and further (3) to certify scores and supervise firing to prevent accident; as well as (4) assist in preparation of reports — there be added to the non-commissioned staff a rifle sergeant, competent to assist the rifle inspector.

There are many capable enlisted men who can arrange to spend a day or two, during the target season, in this very important work. The progress secured would fully justify the allowance of the State pay. This matter has been referred to at greater length in the report of the Inspector General of Rifle Practice, whose views for the most part coincide with my own.

The non-commissioned officers have made marked progress, and their general good work deserves commendation.

There should be a systematic examination, upon well-settled principles, before warrants are issued.

Make the chevron stand for something, and it will be incentive to better work all through the company. The first step will be taken toward a strong underpinning to the force by the development of respected and self-respecting non-commissioned officers.

5. *The Handling of Inefficient Companies.*

Without armory inspections, the department has been unable to decide whether the inefficiency shown by certain companies in the field warranted their continuance in the service.

As the annual outlay on every company averages some \$1,610, the retention of an unfit company, with the many acceptable organizations anxious to join the militia, works an *injustice* to those whose higher standard deserves recognition, as well as involves reprehensible impairment of the force.

The department know of desirable material for new companies in towns and cities where there is eminent reason for companies to

exist. There is every reason to believe that there are worthless, or certainly useless, companies now in the service. Deprived of the opportunity of the closer inspection necessary to decide precisely what companies first should be disbanded, the department realizes its openness to the criticism of partiality and the lack of military courage, which has permitted incompetents to continue longer in the service, and forces competents to wait.

It is a serious matter to disband any company. With long sufferance companies are kept alive and in the service, but far below the standard and prejudicial to the reputation of the militia. This fails to commend itself to me as the full discharge of the responsibility resting upon the military administration. Just so long as better material is ready and willing to come into the force and improve it, procrastination in decisions that call for radical measures lays the militia open to cavil, criticism and condemnation.

B. OF THE ORGANIZATION OF THE MILITIA.

It is the province and duty of this department to guard with jealous care the interests of the State in every matter that pertains to military service; to report extravagances, carelessness and irregular methods, and to promote efficiency and economy throughout every branch of the service.

1. Staff Appointments and their Special Duties.

The duties of staff officers call for special aptitude, and the service requires that appointees should pass an examination as to capacity and fitness for the special department to which they may be called.

The function of the staff is to render assistance to a commanding officer, and an efficient staff is part of the military organization. At least in their particular departments they must add to the competence of their chief, for the commanding officer must be relieved of routine details, to have the proper time for thought to acquit himself of the greater responsibilities that rest upon him.

Outbreaks, and wars for that matter, are so sudden and spend their force so quickly that there is no time to fill up the void of military knowledge when the time comes to make use of it.

The appointment of staff officers is open to criticism. Eminent military fitness does not seem essential. The *personnel* is such as to show undoubted ability, but too often failure to improve opportunities.

Until some measures be taken to insure greater strength in the staff, the militia is far from a state of efficiency.

2. *Retired List.*

I cordially welcome the adoption of my recommendation for a retired list.

If the limit had been set at seven years in commission, or optional on the attainment of rank of colonel, subject to endorsement of higher authority, it would result in greater benefit to the militia, in my opinion.

3. *Mounted Arm.*

Artillery. — I have the honor to call attention to the *material*. The carriages are old and obsolete, and the State runs a serious risk from the dangerous deterioration in some of the present equipment in use.

The policy of not expending money on this old equipment is a good one and the general government might increase the appropriation to States in order that proper equipment can be drawn.

Artillery is distinctly a scientific arm of the service, maintained at great expense, and commission should be in recognition of some real professional knowledge, with fitness for the exceptional leadership that becomes artillery officers.

With fair general *personnel*, and many instances of *signal* excellence, there exists much that reflects no credit on the force.

It is the fault of the organization that it is keyed for the efficiency required in the discharge of blank ammunition. The anomaly of an artillery whose fire action is restricted to salutes seems the inalienable right of Massachusetts.

Attention was called to the importance of actual practice, and the necessity for such range is urged again, with respectful insistence.

There are doubtless difficulties in the way of finding proper ground for practice. Difficulties are things to overcome.

Again, the horsing of batteries is upon a peculiar footing. It is hard to expect any more efficiency from the horses than the men, with a few days in camp, or occasional street parade a year. If it be proper to have batteries in the militia, it is the duty of the State to do more than furnish guns, powder, a commission, blank returns and pay for service which is neither theoretical nor practical.

Beyond facilities for target-firing, there should be provision made for a permanent establishment of horses, enough for at least one gun. Arrangements might be made by which horses could be used by the several batteries in turn, two months each. The cost would be trifling, compared with what could be gained, and there

would be plenty of opportunities for the horses to work out a portion of what it would cost to make them efficient.

Cavalry. — Important as cavalry always are in war, in peace they are too often sent to the rear, as an expensive arm to maintain, and difficult to recruit with the proper *personnel*.

There was danger lest our cavalry be merely men on horseback. The problem of making them more has been worked out toward soldierly results from within, through untiring zeal of officers, non-commissioned officers and men.

The several troops to-day show progressive development. They fall short of what volunteer cavalry might attain, but the responsibility rests now with those whose cordial support is needed to round the force out to its potential strength.

The moral effect of well-disciplined, compact mounted troops, in prompt and decisive suppression of lawless outbreak, has been accentuated by experience in this State. Cavalry possess shock as well as fire action.

The good use reliable troops could be put to certainly warrants drilling them for more than show. While the lance may be a poor weapon at close quarters, in the advance of a solid line of galloping horsemen the lancer would do excellent service.

I would repeat my recommendation that mounts be furnished for squad drills, that every man may have opportunity to fit himself for service duty. This can be managed upon business principles, and the sixteen horses requisite for weekly drill experience secured without large outlay.

Commendable as is the work in this direction now done in one troop, essential preparation for all should be undertaken by the State.

With the enthusiasm characteristic of the mounted arm, capital work might be done by small detachments in practice reconnoissance. Some troops own their mounts, and cross-country riding under an officer or competent non-commissioned officer would prove instructive, and leaven the command with men in hand for any exigency. It is not difficult to master rough road maps, and such knowledge is distinctly military. Whatever broadens acquaintance with service conditions increases interest and leads to greater thoroughness.

The time has come when the mounted arm can be brought quite abreast of the time, and there is no reason why our standard should be under that of the volunteer service elsewhere. There is less shifting in the ranks, certainly in the cavalry; and economy, for substantial results, prompts particular attention to recruits. It is my firm conviction that the State should do more for this arm,

and that comparatively small expenditure would insure desirable competence and would be most judiciously spent.

4. *Ambulance Corps.*

I approve most heartily the increase in numbers, and higher rank of the accomplished commanders of these corps, recommended in the report of 1892. It becomes my duty to emphasize again all then said in favor of having certainly two officers on duty in each corps. It is singularly short-sighted to continue short-handed. With the splendid *personnel* to draw on, with many zealous and capable doctors ready to accept commission, no reason exists for longer maintenance of the present organization.

I have the honor to recommend that the Ambulance Corps be consolidated, under a major, two captains and two first lieutenants. The tour of duty, under a captain and lieutenant, with twenty-five men in each brigade encampment, and such supervision by the major as the Surgeon General may determine.

I have the honor further to recommend that doctors in full standing, who have served the full (five-year) enlistment and earned the chevron, be permitted to retire with the rank of second lieutenant. The great benefit to the service of such valuable men well justifies this recompense.

The consolidation of the corps, on the broad lines of your suggestions, would give the State an efficient command to draw on in any unusual disaster, or the prevalence of any epidemic that necessitated the employment of the volunteers.

The standard in these corps has won my appreciative commendation. Their work shows year after year what can be done if the officers lead their men. In the medical department professional ability gives to the State an example of what the line could do if once aroused to their possibilities.

5. *Company Management.*

Without armory inspection it has been impossible to state whether the unsoldierly conditions that came to light in 1892 have been rectified or not. From the little information the department has been able to gather there has been little improvement, if any.

C. TOURS OF DUTY.

Attention is called to the reports of commanding officers, which summarized the features of camp which they deem of particular importance.

Tables of attendance follow : —

Camp Duty.

ORGANIZATIONS.										
	1893.	1892.	1891.	1890.	1889.	1888.	1887.	1886.		
First Brigade,									10	10
Second Brigade,									14	14
First Regiment Infantry,									628	682
Second Regiment Infantry,									425	402
Fifth Regiment Infantry,									473	989
Sixth Regiment Infantry,									665	599
Eighth Regiment Infantry,									626	544
Ninth Regiment Infantry,									456	451
First Corps Cadets,									137	132
Second Corps Cadets,									84	98
First Battalion Cavalry,									159	185
First Battalion Artillery,									222	190
Troop F, Cavalry,									75	75
Battery B, Artillery,									88	81
Signal Corps, First Brigade,									25	23
Signal Corps, Second Brigade,									25	24
Ambulance Corps, First Brigade,									15	14
Ambulance Corps, Second Brigade,									16	14
Naval Brigade,									11	-
Battery A, Artillery,									-	-
Totals,	5,554	5,282	5,444	5,219	5,082	5,090	4,144	3,813		

Annual Drills.

ORGANIZATIONS.										
	1892.	1892.	1891.	1890.	1889.	1888.	1887.	1886.		
First Brigade,	-	-	-	-	17	8	-	-		
Second Brigade,	-	-	-	-	18	17	-	-		
First Regiment Infantry,	697	702	681	697	704	656	519	560		
Second Regiment Infantry,	612	616	608	668	605	636	387	366		
Fifth Regiment Infantry,	617	651	620	616	580	620	403	320		
Sixth Regiment Infantry,	654	568	653	607	643	634	559	544		
Eighth Regiment Infantry,	668	621	634	566	656	627	546	511		
Ninth Regiment Infantry,	685	686	671	688	553	651	385	379		
First Corps Cadets,	201	201	181	157	150	164	196	119		
Second Corps Cadets,	172	153	157	185	136	148	81	99		
First Battalion Cavalry,	132	138	126	131	148	160	139	132		
First Battalion Artillery,	170	176	171	199	204	209	204	148		
Troop F, Cavalry,	74	67	77	66	67	74	73	75		
Battery B, Artillery,	-	-	-	-	-	-	-	-		
Signal Corps, First Brigade,	22	24	21	17	17	22	24	24		
Signal Corps, Second Brigade,	23	23	19	20	23	24	24	23		
Ambulance Corps, First Brigade,	19	13	15	14	13	14	10	-		
Ambulance Corps, Second Brigade,	9	14	11	14	16	15	16	9		
Naval Brigade,	289	124	216	180	-	-	-	-		
Battery A, Artillery,	106	103	106	-	-	-	-	-		
Totals,	5,100	4,880	4,967	4,775	4,550	4,679	3,506	3,349		

While some organizations show a nominal falling off, their strength has improved by the smaller sprinkling of hot-house enlistment.

As bearing on the efficiency of the militia the following table is submitted showing the percentage of marksmen of record for the last three years : —

ORGANIZATION.	PERCENTAGE OF MARKSMEN OF RECORD.		
	In 1891.	In 1892.	In 1893.
First Regiment Infantry, . . .	62.65	72.35	80.66
Second Regiment Infantry, . . .	74.88	79.91	91.66
Sixth Regiment Infantry, . . .	60.03	69.33	84.70
Troop F, Cavalry,	45.56	36.70	56.09
Fifth Regiment Infantry, . . .	63.79	65.31	71.56
Eighth Regiment Infantry, . . .	45.01	50.46	71.86
Ninth Regiment Infantry, . . .	24.49	37.93	65.15
First Battalion Cavalry,	31.42	34.28	37.72
First Corps Cadets,	71.49	80.87	80.26
Second Corps Cadets,	57.77	62.90	59.81
Naval Brigade,	45.20	85.37	93.43

	1890.	1891.	1892.	1893.
Number qualified or requalified during year,	1,551	2,383	2,925	3,910
Marksmen in service close of year,	2,459	2,828	3,401	4,377

1. Camps.

Nothing is more needed to render the efficiency of the militia complete than a course of applied drill to supplement theoretical instruction. It is emphatically desirable now, when new equipments and drill regulations are under consideration.

As to the drill: the present Regulations are of Franco-German extraction, and while in accord with the principles of modern war, as understood by European authorities, are as yet in an experimental stage here.

Admirable for highly trained and disciplined troops, it is a question how far well adapted the present Drill Regulations are for the militia. To some extent modifications must be made for any improvised armies of this country.

The responsibility rests upon the troops of making the most of the system which comes stamped with the approval of the army. The drill must be mastered to be put into practice, that by the execution of the movements the strong points as well as any weakness may be emphasized. From the experience gained will come a revised drill thoroughly American as in touch with the conditions and possibilities of our soldiers.

As the volunteers will form the larger part of any army in real warfare here, the solution of this problem must be studied by volunteers, as it intimately concerns their proper training. Again, from their numerical superiority to the Regular Army, and better grouping in larger commands available for drill and manœuvring, they have a duty of great importance in the practical illustration of the present Regulations.

As to field service: the annual encampment has familiarized the volunteer with the method of camping in tents, but it may be doubted whether the conditions of war have not been entirely lost sight of. The very excellence of arrangements made for the comfort of the men during the week's training seems almost to be a source of danger. As a rule, the command on arrival find the tents pitched and the camp ready, and during the whole week breakfast, dinner and supper are provided with a regularity even greater than that of an ordinary household. There is nothing wrong in this, for the main object of the week's camp is to have plenty of time for drill; but undoubtedly a commanding officer would do well if he should insist, even at the risk of losing half an hour's drill, on the observance of one or two of the conditions of a campaign.

It was doubtless paternal kindness which prompted this protective policy for the militia. It has relieved them of some drudgery at the expense of pretty essential features for any experience in campaign work.

Again, attention is called to the advance made by taking to camp only those men who can serve the greater part of the tour of duty. When a man is in camp for a day, or only over one night, there is a tendency to disregard camp regulations. This results in a noisy, restless camp after taps, and disturbance to the men in the same tent. Quite independent of the item of transportation for a skeleton duty, such an element demoralizes a company, and should be put an end to. Volunteers are all civilians, and as such have plenty of opportunities for amusement all the year round. The militia would do well to copy the army in things military, and let the return to the days of their boyhood gladden the fireside of home.

The intention of the wholesale discharge of men who have not reported for duty in camp is excellent in theory. More time should be allowed for absentees to submit their reasons for absence, as otherwise many desirable men may be lost to the service. If returns are made after one drill night, say ten days after camp, equitable results are secured.

Excellent as the camp ground at South Framingham is for the purpose of elementary drill, military movements should be conducted over ground more nearly resembling what would be fought over in action. It is quite practicable to find just the sort of varied ground most desirable, near a railroad, and yet to be had for a very small outlay. About a mile to a mile and one-half square would make an ideal camp for manœuvres. This should be selected quite away from any town or station. Inexpensive barracks could be put up near the track, and certain trains stopped for the convenience of the force on duty.

Work really instructive would be practicable there, and there could be no greater spur to efficiency.

Safe ranges for rifle fire would be possible, and the commands would get invaluable experience for actual service.

Over such ground there need be no "vain repetitions," but each day of every year would teach new lessons, impossible at South Framingham.

The proper allotment of baggage would do away with the senseless truck, apparently necessary for the volunteer in a show camp, while the absence of the civilian camp follower would be a crowning mercy.

Here there would be admirable room for marching and extended order, as it would be taken for keeps; and with the issue and use of light entrenching tools would come a proper grounding in this necessary accomplishment for a soldier of these days.

While we may well be proud of the superbly appointed camp at South Framingham, it is over country as it is found in its natural state that actions usually take place in war.

For the highest efficiency of the force, a camp for military training is imperatively needed. This State cannot afford to lag behind, and while proper land can be secured at nominal cost is the time to make provision to bring the militia more upon the footing of soldiers.

The exceptional privileges enjoyed by the Naval Brigade have been repeated through the continued courtesy and consideration of the Navy Department.

If Congress would show the same generosity in its appropriations to the balance of the militia, much good would result. I

would take this occasion to express my deep appreciation of the permanent benefit to the volunteer of a broad and generous policy by the government; so much has been done, and each year has seen such fresh evidence of judicious encouragement, and kindly *esprit de corps*, as prompt hearty response and conscientious *thorough work*.

2. Rations.

The army ration is no prison diet, but precisely the kind of food best suited to the soldier. This would seem to suggest something to the volunteer troops.

The charges may not be excessive for the food provided under the present system of catering. The fault lies in the injudicious selecting of the food, and a service costly as well as unmilitary.

The regular army ration would give more healthy food, and there could be added sufficient extras to make the fare in camp ample, and yet leave over a dollar a man for real pay. While this could be assigned as now, companies should go out of camp in better physical condition, and with several hundred dollars to the good. A portion of the pay earned might be given the men, as other States have seen fit to do.

Should the State assume the rationing, there would be material economy, and really more money available for the men after camp. Still, the enlistment of a company cook, as in Pennsylvania, is preferable. There would be added to the pay a sufficient allowance from the company fund to secure a satisfactory cook. This would do away with the dependence of a company upon contractors. Under such cooks could be civilian assistants, but there would be military supervision of the preparation of food, and valuable experience gained for any service of the company by itself.

The rationing by the State could be tried with company cooks as chiefs, and in this way the elasticity of the army ration explained, and ultimately every company left to its proper resources as a self-contained unit.

There has been some attempt to work out more soldierly methods, and the quick response to your suggestion shows the time opportune for improvement.

The subject of rations given me as a detail has been reported on, and as a special matter is not referred to here.

3. Marches.

The militia can be considered a first reserve to the army, as yet, only in theory. We can limit our military training to as little as we please. If a clean, well-uniformed body of men, skilled in the manual and able to go through ceremonies, is our ambition, let us

steer clear of error in calling them soldiers. This is not the definition given in regulations, nor is it all the militia aim to become.

The need for progress has been widely recognized, and the fervor with which thoroughness has been sought has seldom been so marked as during the last year. This can be turned to good use, and permanent improvement assured. The least we can do under modern requirements is to maintain a militia equipped as perfectly as possible, and then practise it annually upon well-defined lines looking toward efficiency.

More field work is necessary, and decidedly more experience in marching. It is impossible to exaggerate the importance of the march, which constitutes the every-day work of an army,—combat, or at any rate battle, being the rare exception. Yet of the march under ordinary war conditions the volunteers have no experience. To take men from their daily work, put them in different clothes, permit them but a few hours' rest, with an entire change of food, and food not always wholesome (very unlike the regular fare of a soldier), and then give them smart drills or ceremonial functions, is certainly peculiar training for military duties. Often the morning drills, the most instructive work of the day, are slimly attended. Under the existing order of things it is difficult to find fault with meagre battalions, certainly when the men are reedy recruits, and out of condition, from a faulty system as well as their own unchecked indiscretions.

A few hours of marching welds a command together, and is a capital beginning for camp. The time will come when some regiment, or battalion under a keen major, will take the field with proper transport, and actually march to some rendezvous for Governor's Day. The experience would amply pay for the shock of a move based wholly upon a struggle for efficiency.

4. *Field Days.*

To render field operations of any permanent value, the *idea* must be carefully thought out. This becomes vital, if the work be restricted to a single day. The idea should be shaped to ground the command for probable actual service, beginning with the rudiments of duties in the field, and advanced through progressive stages, from year to year. Thoroughness should be the underlying feature, so that the points made be of lasting benefit to a command, easily kept vital by the leaven of old soldiers who remain in the organization.

A full-fledged sham fight, on an idea known to the commanding officer, barely outlined to a few officers, and with little or no expla-

nation to company commanders and enlisted men, gives little in the way of any real knowledge to the men. As most officers rise from the ranks, every reason exists to have system and method govern all tours of duty, to gain the practical instruction and knowledge of service conditions to be acquired from peace manœuvres.

Each principle of action, offensive and defensive, the prudent movement of troops that lead up to their tactical disposition, the proper method to advance in open or close country, and a judicious use of the natural advantages of the ground, can be best mastered by being understood beforehand, by rank and file, that the field work prove a profitable object lesson. The general *idea* should be issued for the information of all concerned.

Cut and dried movements are out of place in the field. Something should be left to the fertility of commanders; and, as the end and aim of manœuvres are to broaden experience to handle men skilfully, under somewhat similar conditions in actual hostilities, every move has a bearing on every other move. When an error is made, an opening is given, and the initiative of action on such chance of war falls to the senior officer in command of the fraction in immediate opposition. While strictly following the general idea, officers must draw on their resources to make the most of any opportunity.

The main features should be transmitted to company officers, to be explained to their men on the blackboard in armories, the precise position to be occupied by any company not being stated, but the salient points made clear, that there be an intelligent comprehension of what is intended, and the field operations leave their due impress on all. The interest of the men will be secured, and they will know for what they are being manœuvred, before reading it *in extenso* in the newspaper the day after.

Officers will be set to thinking, rendered keen to develop their individuality, and prepared to grasp their orders and execute them with the originality, in detail, properly left to them.

The battalion commanders will study their units, and, with more reliable knowledge of their companies, can more quickly and effectively respond to the orders they receive.

The commanding officer will find his *idea* better handled and there will be an end to aimless marching and counter-marching, or, what is even worse, no marching and an utter stand-still, from misconception of his plan, at some crisis in the manœuvres.

The necessary preliminary details give the staff an opportunity for practical work.

Carried out on such lines, the day will be well spent. There would be much to attract officers of other organizations, and there

should be no difficulty to secure competent umpires. The State would get a full equivalent for the real outlay, which is now too often barren of adequate results.

While in some cases the idea has been worked up carefully, it is seldom impressed upon the men, as a preparatory study, before the day of execution. It is frequently very elaborate; a campaign condensed into a few hours, with the inevitable lack of perspective; and, by an effort to include a great deal, fails of digestion.

Complicated things should not be practised too much, but the time more profitably employed in going over simple things, again and again, until they become instinctive to the men, and they cannot help doing them.

The work of the current year varied greatly, and in some commands was elementary, well thought out and consequently well executed.

In other cases the *idea* was capital, if somewhat elaborate, but failed of the profit such field work should prove from being indifferently understood.

Again, the lack of umpires often deprived the work of the lessons which should have been learned, and emphasized by competent judges of the moves made or attempted. As a man works his company during peace, so he will try to work it, at any rate the first time, in war. False ideas that spring from impossible representation of fighting must be corrected.

Attention has been called recently to the reckless firing under impracticable conditions, as more likely to leave wrong impressions than teach any lesson for good. It is natural and human for the soldier to find comfort in the noise which his rifle makes, but it is not war. In some commands there was less independent fire, and commendable improvement in the way of volleys and controlled fire.

Effective action is the assembling of the fragments of a command, upon well-matured lines looking toward successful execution through combination. All drill is merely the preparation for carrying out, instinctively, principles that have been learned so thoroughly that they have become second nature. All are but parts of one whole, which the commanding officer directs to carry out his own *idea*. *What* to do in furtherance of the plan of action devolves upon battalion commanders; *how* to do it upon the line officer. The failure to grasp this distinction has often brought about indifferent work.

While every major must thoroughly grasp the duty of subaltern officers and know *what* their command is capable of doing, they cannot command every company if they would command the battalion.

The captains and lieutenants should master the preliminary steps of *how* to do a movement to lay the foundation for a higher command. Unless this division of labor is clearly understood, movements will lack the smoothness essential to proficiency.

The general disregard of the principles for practical results led to incorporating in this report the memorandum drawn up by the department in 1892:—

GENERAL RULES GOVERNING FIELD MANŒUVRES.

1. The general idea will be issued in season to be understood by the whole command.

2. Special instructions in greater detail for commanders of fractions of the command will be issued in the form of orders, which should be short, clear, free from ambiguity, and strictly in the form which would be followed in real service.

3. Whenever practicable, orders are to be in writing; staff and orderly officers to write out orders given them, and have them verified; any verbal order to be repeated before the bearer starts on its delivery.

4. Reports to be in writing, whenever practicable, with the signature of sender, place, hour and date.

5. With a little practice, maps can be drawn, and simplify reports of the nature of the ground and position of the opposing forces. These need not be pretentious, but, roughly drawn to a scale, they convey more valuable information than a lengthy report, which unduly consumes time in reading as well as preparation.

6. Written reports, orders, signal or telegraphic messages to be preserved and handed to the senior umpires at the conclusion of the manœuvres.

Troops.

7. Opposing forces to be in the uniform of the State. Different orders of dress may be worn, or some distinguishing mark adopted and made known to all participants.

8. Battalion commanders to be assured by reports of captains (based upon personal examination) that all the ammunition issued, or in reserve for issue, is blank, particular care being taken to avoid armory ammunition.

9. Infantry not to approach nearer to one another than one hundred yards in the open, or fifty yards in enclosed country. No firing to be allowed nearer than one hundred yards.

10. Bayonets never to be fixed.

11. Infantry, or dismounted cavalry halted, will only fire at any one body of troops advancing a sufficient number of rounds to denote its position. Credit will be given as if a sustained fire were kept up.

12. The success of a peace manœuvre is not necessarily the mere expenditure of ammunition. Random fire is most reprehensible. It is a contest distinctly for points.

13. Firing must be conducted upon principles which would govern in hostilities, and the men taught to save their cartridges. Fire, to be effective, must be judicious. The utmost discipline must be maintained; an occasional volley will pull a company together, and do away with the senseless fusilade of some over-zealous recruit.

14. Due regard must be paid citizens, and needless firing on travelled streets or near residences avoided.

In Action.

15. Railways are only to be crossed by regular bridges and crossings.

16. It is optional with a commanding officer to make such constructive obstacles as he may see fit. For instance, roads may be tentatively closed, certain fords regarded as impassable and bridges as destroyed; but in all such instances placards will be affixed, and umpires, field officers or officers of independent commands promptly notified.

17. That no time may be lost, the commanding officer will establish such time limit as will govern umpires in their decision as to the turning points in the manœuvres.

18. If patrols or bodies of scouts meet each other, neither can advance, and the umpire will decide which is to retire. If of unequal strength, the weaker is to fall back, unless the umpire consider its superior leading should entitle it to advance.

19. After any issue at arms the umpire will decide which side has made its point; the successful force will occupy the ground, while their opponents retreat out of sight, and are not re-formed within five hundred yards. Hostilities are renewed upon announcement by the umpires.

20. Attention must be paid to the possibilities of movement in action. Men cannot fire accurately when winded, and the effective condition of troops must be taken into account, as well as their tactical position.

21. Strict fire discipline and the economical use of ammunition are to be enforced. Only five rounds should be carried by the men, with the balance in reserve, to practically illustrate how it would be served out in action. Beyond the experience gained, there will be less aimless firing.

22. Signalling parties are liable to be ruled out of action if beyond the limit of protection by their own troops.

Of Umpires.

23. Unless there be umpires to properly disqualify such troops as would be *hors de combat* in actual hostilities, the lesson of peace manœuvres leaves slight impress. Valuable as the experience of umpiring is in and of itself, it is most valuable to facilitate peace manœuvres, and, by noting good points as well as glaring defects, enables such a report to be made as will insure the best results in the way of general improvement. Without some such impartial verdict, good work and bad work stand on the same footing, the efficiency of the regiment remains the efficiency of individuals; however, unless a command is well linked together, it is bound to fall to pieces in real action.

24. Umpires should wear a broad white band on the right arm above the elbow; for umpires the breadth will be four inches and for assistant umpires two inches. All other neutrals in uniform will wear a white band on left arm.

25. Except to escape collision, umpires are not to give any orders to troops. They may, acting within these regulations, rule troops or guns out of action, or incapable of movement, and inform the officer in command accordingly, but are not to order advance or retirement. In order that the troops may not lose instruction, they should seldom be placed out of action for more than half an hour.

26. In their decisions the umpires must be guided by the considerations which follow: (a) the relative force engaged on each side and in immediate reserve; (b) in the attack, the strength of a position, the nature of the ground to be passed over, the plan of attack and its preparation; (c) on the defensive, the disposition of the troops and arrangements for counter-attack; (d) handling and fire discipline of the troops on either side, the number of rounds that could be fired, the accuracy of the sighting and the manner in which the fire was delivered.

27. Before the operations of a day begin, umpires will be furnished with copies of the "special ideas" of both sides, which are to be considered strictly confidential. Officers in command of forces will inform the senior umpire what instructions they have given, and what they propose to do.

28. The senior umpire on each side is responsible for the distribution of the other umpires. Umpires and their assistants are to meet the senior umpires of their side before the commencement of operations, when practicable. Before the troops move away from their places of assembly they are to be allotted to the several bodies with which they are to act, and will accompany them. As far as practicable, one umpire should be detailed to watch each separate portion of the troops, but their action must extend to all troops in their vicinity.

29. Umpires, when with troops not in movement, should be careful to keep as much out of sight of the force in opposition as the nature of the ground will allow.

30. Orders from umpire staff are to be regarded as the orders of the umpire-in-chief, and are to be carried out without discussion. A decision once given can only be altered by the senior umpire of one side.

31. The umpires on the spot will decide questions for all arms, without reference to their effect on the general course of the manoeuvres. When senior umpires are on the spot, other umpires should obtain their approval before giving important decisions.

32. When there is a prospect of collision, the umpires from each side should meet. After discussion on the tactical situation, based on the strength and position of the two sides, they decide which is to retire. In the absence of an umpire attached to one of the sides, the one belonging to the other side must make his decision alone.

33. Umpires are to note down the exact time when each prominent feature takes place, to make a final and complete verbal report at the end of the day. They should at once inform the chief umpire of de-

cisions which materially affect the operations of the day. They will report any hesitation to comply with their orders.

34. In the same way the commanders of troops are to report these decisions to their senior officers, and communicate them to the troops on either flank.

35. Mounted officers will be ruled out of action if within three hundred yards of hostile firing.

36. A flank may turn either a good position or earthworks, and troops outnumbered and outflanked must usually retire.

When infantry meets infantry at one hundred yards, both sides advancing, and neither side takes up a defensive position, the weaker must retire.

37. Infantry, if judiciously posted behind a shelter trench or earthwork, can only be dislodged by a frontal attack, well commanded, and which shows effective fire discipline, of four to one. If unsuccessful, the attackers lose one-fourth; if the defenders be dislodged, one-fourth are disqualified.

38. If judiciously posted in a strong position, but not entrenched, they can only be dislodged by a frontal attack of three to one. In this case the attackers lose one-fourth if unsuccessful, and one-sixth if successful.

39. Attention must be paid to the advantage of flank attack, and in a well-conducted turning movement a smaller force out-points a larger force taken by surprise.

Reports of Umpires.

These should state: —

(a) If the idea was generally understood.

(b) The extent to which distinguished marksmen were used as range finders, and whether the ranges set by officers were properly estimated, in their best judgment; how far the sights were adjusted and used by the men at the range as ordered.

(c) The formation adopted in the various zones of fire; how far the officers and men were exposed to fire; what use was made of natural features of the ground; at what stage of the attack did the mounted officers dismount.

(d) Description of fire used; the manner of giving orders, and what fire discipline was maintained.

(e) The coolness of officers and men under fire; any particular instances of signal skill in handling men, or ingenuity to foil the opposing force.

(f) The condition of the men at the close of manœuvres, and an estimate of their staying powers for continued work in the field.

(g) The thoroughness of the staff in their special department; of their usefulness as aides-de-camp to the commanding officers.

Final Report. — After the umpires have conferred together and asked such questions as they desire of the officers in charge of the respective bodies of troops, they will submit a report on the tour

of duty, the embarkation and debarkation of the troops, the provision made for their rations, for the hospital service, as well as the manœuvres in detail. One report will be sent the commanding officer of the organization, for such use as he may deem expedient to explain to the officers how far they carried out his *idea*, wherein they fell short of his expectations, and what impression their work actually made in the decision of the umpires.

On the present system of fall field days, they fail to result in all the good they should, and therefore do not give full return for the appropriation expended on such manœuvres. Field days come year after year, and are of more or less value according to the experience gained. They can slowly but surely ground officers in their duties; the non-commissioned officers and men in what is expected of them. They tend to make citizen-soldiers rather than soldier-citizens; to build up a force to be relied upon for actual service, and not a mere picturesque and passing show. The good comes from preparation to make the most of the limited time, and in seeing the movements executed, quite as much as the mere execution of the movements themselves. Now, the precious chance to learn from such a practical object lesson is quite lost to most of the militia. It is a good deal to expect that volunteer officers will give their time and means to make trips to the different localities where other regiments have their fall manœuvres.

There can be no better expenditure than the allowance of transportation for such officers as might desire to attend the fall drill's. This privilege can be restricted within reason, and be either a detail with subsequent report of the work, or be granted upon personal request, with the favorable endorsement of commanding officers. What could be learned would be of the greatest benefit. It certainly narrows the good to be derived from the very considerable outlay, to restrict the experience to the officers and men of a single command—their own on duty. The very fact of their own special work limits observation to what goes on about them.

Officers and discipline are indeed synonymous terms; the regiment progresses with its advance in discipline. Now, discipline in the field is largely the result of experience.

The greater familiarity officers get in the field work, through command or by intelligent observation, the more they know, the greater their efficiency. There should be a study of, as well as active participation in, systematic field work. The force would be knit together by the closer acquaintance of the keen officers, the leaven of a volunteer organization.

Generous rivalry would be stimulated; there would be an incen-

tive to fresh, original, but well-digested work. Errors would be made, as errors must be made; but they would point a moral in their making, and thus reduce the element of error, in the most prevalent type, to a minimum from personal observation. A blunder in the heat of a rushed field day, quickly detected by an onlooker, leaves an impress on a cool and thoughtful spectator more than the living example can realize himself. Thus the good work and crude work of a day would not be profitless.

I respectfully recommend that encouragement be given officers to attend field days of other organizations, on the lines suggested.

Then when commands have become qualified for working out an *idea* in field manœuvres, there will be competent umpires, and the knowledge of military details and handling of troops will be broadened, and officers learn somewhat to know their own State, and to be in touch with their honorable profession.

From such a systematic course, begun with a well-defined idea, thoroughly mastered in its minor details before the field day, with careful and competent umpiring, a comprehensive and searching report, it is the opinion of the department that greater progress may be made, and more permanent benefit secured to the militia.

If preferable, when the commanding officers of the detachments are assembled after the manœuvres, and have stated their plan of action, and the umpires have reported on the success or failure of the several moves, the chief umpire can sum the work up and give his verdict.

The officers, on returning to the troops who have been engaged under them, can assemble their officers and state the reasons which led to decision rendered, and with the work fresh in mind leave the lessons taught by their work, thus to ground discreet handling of their respective commands, or show wherein they fell short of their possibilities.

ARMORY INSPECTIONS.

The Acting Inspector General in his last report (1892) recommended armory inspections by battalion rather than by regiment, the advantage being (1) a greater familiarity by the department with the force, (2) more intimate knowledge of good and weak points peculiar to a command, with (3) the maximum of benefit from several keen officers on duty with every regiment, whose reports could be collated, and thus (4) the final summing up be more searching, thorough and calculated to result in greater improvement to the whole service.

Every reason exists for judicious State inspection. Upon consistent preparatory work depends a well-knit and strong company.

Companies proved of doubtful efficiency should be given supplemental inspection, and generous and progressive rivalry in the battalion stimulated.

Preferably armory inspection should be of the regular work on a drill night. The money allowance on only a stated function of inspection tends to get out abnormal numbers, while the average attendance at drills would seem a more proper basis for the pay now given for the muster of a single evening.

Under adverse circumstances that hampered the department in 1892, a new drill, inspections quite too late in the year, and several companies found in wretched condition, the work was still conducted upon a system.

It would seem superfluous to make this statement, but that such businesslike procedure and thoroughly military method was suspended the current year.

In 1892 armory inspections properly came first, of unusual thoroughness, with full reports on armories in use and their adaptability to the requirements of new Drill Regulations; then the tours of duty in camp were watched with great fidelity; and, finally, the fall field days prompted very carefully prepared memoranda.

In the report submitted you was my earnest recommendation for an increase to at least seven inspectors, that the department could live up to the duties that devolved upon it, namely, to know the force and submit you their real condition of efficiency for service, and upon such well-matured lines as would lead to the improvement most essential.

Without what must be learned by observation and intelligent inquiry in the armory, there is lack of close enough acquaintance with the troops to come to sound conclusions, certainly as to company methods, which sorely need codification to secure military uniformity and simplification, to be businesslike as well as soldierly. Again, care and condition of arms and the completeness of equipment all require inspection to be kept in due readiness. The very handling of the company, as a company, becomes information valuable for the department, which exists to find out precisely such facts, *the state of preparedness for action*.

Armory inspection often has spurred a company on to better things. Signal incompetence noted in officers has led to improvement, or removal to give place to fit leaders.

The certainty itself of an inspection has a wholesome influence in toning up companies below the average, while frank conference with regimental officers can be made a great good in many ways.

Every reason exists for inspection by commanding officers and

the brigade inspectors, and there is no desire to infringe upon their prerogatives. Still some responsibility either rests upon the Inspector's Department, or it is merely another phantom of the militia strength in this State. Usefulness narrowed to inspection in the field abandons the fundamental groundwork of inspection, which is recognized in every progressive State with a respectable volunteer service.

I have the honor to express my profound regret at the restrictions on the department entrusted me. Weakened through well-merited promotion, no addition was made, and the State lost the ripened experience of officers who had given conscientious hard study to fit themselves for a proper discharge of their duties, from having inspections limited to commands *only* when in the field.

If the sum and substance sought by higher authority is merely a review of field work, necessarily superficial, it is better to have an officer detailed from the Regular Army for the summer months of the State campaign; one who *might* make a searching, clean-cut report on the methods that now maintain here, and go to the kernel of the present status of the force. There would be the advantage which a single opinion has, the same standard for every command.

Better abolish the assistant inspectors *en masse* than relegate them further from what should come under their immediate supervision, which is meet and right and their bounden duty.

I have the honor to recommend: (1) That the department be under the immediate charge of an Inspector General, with six assistants. (2) That armory inspections be by battalion, and (3) by the Inspector's Department, independent of any regimental inspection; and (4) that there be conference, that all may work to secure the greater efficiency vital to raise the standard of the force. (5) That inspections be of the real standing of a company, taken on any drill night, rather than at a mere stated function which cannot show the correct condition of a company. (6) That supplemental inspections be recognized as a means to work out improvement from within, whenever practicable, to avoid the recourse to surgery to prune the service of the dead wood which now militates against progress. (7) That such permanence be assured this department as will take it clean out of politics, recognize the sound basis of any militia, State troops, with the definite purpose for which they exist. (8) Finally, thus cordially to enlist the best efforts of inspectors to perfect themselves systematically for the exacting duties of rigid, fearless, progressive inspection, keyed to a high standard and tempered by one object alone,—the best good of the whole force.

Just so long as the Inspector's Department is a creature of party, and commission becomes merely the tenure of office liable to change with successive administrations, its power is undermined, its work handicapped, its usefulness minimized.

The selection of this department for political rather than professional fitness is unsound in principle. To remove a competent inspector for his personal political belief smacks of making the militia partisan, a condition farthest possible from what it should be. The department, as far as I know, has held honorably aloof from politics, and always given chivalrous loyalty to higher authority. Until inspectors are accorded what their faithful discharge of commission insures every soldier, the military administration is open to just criticism.

IMPORTANCE OF INSPECTION.

Without inspection too much is inevitably taken for granted. The force makes a magnificent showing on paper, but something more is due the State for the substantial annual outlay. A capacity for studious progress, with experience, becomes the staff.

REPORTS.

The present system of reports furnishes a copy to brigade commanders and the several commanding officers of regiments and battalions, the retained copy remaining with the department. That defects have been noticed and remain undressed suggests the desirability of having the receipt of reports acknowledged to the chief of the department, with such explanations as seem in order.

There should be the utmost frankness and hearty co-operation to build up the force. The department is at one in an earnest effort to have their every action strengthen the militia, and to be strictly impersonal. If there be friction or undue attention to minutiae it should be made known, and if obstructions exist, they can be treated as the occasion may dictate for the best ultimate results.

NEW COMPANIES.

Vacancies existed in the infantry arm and Naval Brigade. After inspection and recommendation by the department, the petitioners at South Framingham and Springfield were approved and duly mustered into service.

General lines were laid out as follows :—

Attention should be directed to —

- (a) The *personnel* of the men.
- (b) Good material to officer a company.
- (c) Public interest in a company and cordial support.
- (d) An armory of sufficient size.
- (e) A readiness to furnish range facilities.
- (f) The desirability of any location for the militia as organized.
- (g) Any new location should be weighed carefully, in view of possible reorganization of the Massachusetts Volunteer Militia.

It was established that no petitioners should be accepted unless they gave promise of furnishing a company above the average already in the militia.

A rigid physical examination was given every man before he was mustered in.

Attention is called to the blank form used in examination.

ANNUAL ENCAMPMENTS.

The annual encampments of the militia were held as follows :—

First Brigade,	June 6 to 10, inclusive.
Second Brigade,	July 18 to 22, inclusive.
First Corps of Cadets, . . .	July 11 to 15, inclusive.
Second Corps of Cadets, . . .	Aug. 8 to 12, inclusive.

OF INSPECTIONS.

Reference has been made already to the scope of the work left the department the current year. What is inspected will be practised, and this is the more true as the period of peace grows longer.

First Brigade.

The tour of duty showed the same hard work which has characterized this brigade. Spacious as the field is, it is taxed to the utmost to comfortably accommodate a full brigade, and the extended order makes great demands upon the drill ground.

The march of the artillery to camp was made under inspection. More thought should be put upon the care and handling of troops on service and under State pay. I emphatically protest against any such movement of the mounted arm without some competent medical officer in attendance.

Second Brigade.

The work of this brigade showed improvement over former years.

Any extended report on the brigade tours of duty, as such, is properly left to the brigade commanders.

The officer detailed to accompany the First Battalion of Cavalry over the road reported excellent discipline and that the day was profitably employed. The command arrived in excellent condition for work, and the readiness with which the object lessons were mastered speaks well for the *personnel* of this command.

Observations.

Military courtesy was fair.

Guard duty, an improvement, notably in the ceremony, with lamentable instances of unpardonable ignorance of sentries. There is no excuse for such unsoldierly slurring of proper instruction of recruits, or wilful negligence of men to fit themselves, as they could, with a few hours' study, for work sure to fall to them in camp.

It betokens a restlessness, a lack of steadiness of purpose, and a deficiency of mental training and control as disqualify such ignorant men from the service; their presence throws an undue burden upon the service which it is best to avoid, and their places should be filled with better men.

The officers of the guard were better than heretofore. Still few could feel perfect satisfaction with their discharge of this important duty essential for every officer in service.

Quarters.

Quarters showed signal improvement. There are sore spots yet, and too much clumsy, senseless baggage, but greater neatness was apparent, and won hearty endorsement.

Rifles and brasses were cared for better, and there was commendable progress in these little details which mark the true soldier.

Bicycle work made substantial progress. There is a field for the development of a strong auxiliary body of fleet troops on the lines already outlined by the department.

The guard-house remains as located, and I would again most respectfully recommend its change to a preferable position. Men are confined where disturbance becomes notorious.

The constant passing and repassing distract the guard. The position of No. 1 is embarrassing, and such as inevitably leads to seeming negligence at times in turning out the guard.

There is great difficulty to avoid the mingling of visitors and others with the guard, and singular apathy in preventing this serious breach of discipline.

Regulations.

Guard-house regulations should be defined clearly,—the provision for a light lunch at night, and regularity in dismissal for meals, and proper record made of every man away from the guard, for whatever reason. The present shiftlessness, that continues year after year, involves needless hardship to the men, and is a disgrace to the service.

Inspection of camp was made twice a day, and showed better police than heretofore.

The question of drainage is yet unsolved.

Visitors would be more welcome if their coming was concentrated on Governor's Day, or the afternoon of Thursday. A real interest in the militia does not go to the length of interference with prescribed work, as is too often the case nowadays.

First Corps Cadets.

The camp of the First Corps of Cadets is a signal object lesson which could be well studied by field and line officers, and there is no reason, with the *personnel* among the officers in this State, why there should be such marked distinction in this example of good discipline.

Second Corps Cadets.

There was decided improvement in the tour of duty of this command.

Naval Brigade.

The Naval Brigade went to New York in April, and acquitted themselves well.

Later in the year a more practical tour of duty was performed by the command in detachments on the "San Francisco" and "Miantonomoh" for five days at sea. The faultless discipline, zealous application and substantial progress made under such conditions only confirmed the favorable impression of this progressive command.

The Naval Divisions have proved themselves earnest workers, and as beginners picked up the work admirably well. The response to the discreet and painstaking instructions of the regular officers, cool, systematic and thorough, emphasize what such work

could do for the enthusiastic and intelligent rank and file of this arm of the service.

The possibilities for the effective use of the Naval Brigade, in my opinion, are all that their most ardent advocates would claim. They round out the militia of States that border on navigable waters, and furnish a promising field for keen volunteers with scientific attainments, and sufficient time to develop the peculiar functions assigned the several divisions. With men of such tastes and parts, thoroughness and hard work toward improvement are welcome and preferred to more pretentious efforts, effective merely in appearance, because premature.

There has been marked improvement, and the *personnel* is so excellent, there is reasonable ground to hope for the further growth in the direction of real proficiency with greater thoroughness.

FIELD DAYS.

The field days of the several organizations were held as follows :—

First Regiment of Infantry at Taunton,	Oct.	9.
Second Regiment of Infantry at Northampton,	Sept.	21.
Fifth Regiment of Infantry at Braintree,	Sept.	28.
Sixth Regiment of Infantry at Fitchburg,	Oct.	11.
Ninth Regiment of Infantry at Boston,	Oct.	5.
Battery A, Second Brigade, at Boston,	Sept.	25.
Signal Corps, First Brigade, at Boston,	Oct.	5.
Signal Corps, Second Brigade, at Malden,	Oct.	4.

GENERAL OBSERVATIONS.

I have the honor to once again refer to armory facilities under the new drill regulations. The department has carefully considered the proper size for the simple company movements. One hundred by one hundred and fifty feet gives the minimum for a serviceable drill floor, but greater space would be preferable. If favorable consideration were given my previous recommendation, that plans be drawn for a model armory for one company, and also for a battalion, such would be invaluable for authorities of towns or cities where new companies are suggested, or public spirit prompts an improvement in the armory accommodations of companies already in service.

There are enough architects interested in the militia, through their personal service or public spirit, to undertake the drafting of working plans for the good of their State, to lead me to suggest the appointment of a board of officers to invite such architects as desire voluntarily to submit plans. The bonus of some nominal sum for the plans accepted would be well spent.

Quite apart from the very real service this would be to the militia in general, the acceptance of a thoroughly rational armory *type* properly adapted to drill requirements, with rifle galleries for use rather than abiding monuments of injudicious expenditure of money, might well enlist the best efforts of architects for the professional endorsement and recommendation the State approval would give.

An armory is not necessarily an expensive structure, but unless constructed under military guidance, and with due consideration for what needs to be permanent and therefore warrants expense, and what is immaterial and therefore may be less costly, the outcome is too often a needlessly pronounced failure.

With the publication, in the report of the Adjutant General, of a model armory, such could be adopted entire, or with the modification the local authorities might see fit to venture upon. With the blue prints and specifications which could be furnished, there would be some standard, with which the department feels more intelligent action would be taken in this feature essential to a well drilled command.

If it be within the province of this department, permit me to bring to your consideration the question of the annual outlay for music in camp. Beyond the provision made for company musicians, available when assembled to furnish all that is absolutely required for a regiment on service, the presence in brigade camp of over one hundred musicians, many of whom are not enlisted men (and hence constructively independent of military discipline), involves the outlay of much money, without a correspondingly adequate return. Certainly two bands might furnish all the music required, and with a slight increase in the pay per diem this might be welcome, with a very material economy to the State. For the purpose of the passage in review, and for the evening band concert, two bands would be quite as effective as more. The importance of increasing the expenditure of the annual appropriation in other directions has led me to bring to your consideration this means of retrenchment, without impairment of efficiency, and with direct benefit in strengthening the militia where money is now urgently called for.

It would seem well to establish a bureau of military information. While there are many official documents and carefully prepared reports in the possession of the State, there is field yet for much work which would be invaluable on an emergency.

The methods that have accomplished much in other States might be studied to *some* extent with profit.

Reports of officers sent to visit volunteer and regular troops on

duty may have comments that are worthy of consideration. A thorough knowledge of our own State, and a systematic investigation of the topography of cities, with a view to mobilization of the force, are important enough to watch and have kept up to date.

The condition of roads, surely about the principal centres of possible rendezvous, should be perfectly well known.

Such a department, under a judicious head, could collect much useful data and awaken fresh interest throughout the force. It would be progressive, and if open to the criticism of being theoretical, it would be most certainly practical, and Massachusetts would merely follow, late in the day, what other military administrations have accepted as essential for years.

I have the honor to recommend : —

- (1) Such changes as may improve the force.
- (2) Such reorganization as may improve the organization.
- (3) Such forethought as may improve the tours of duty ; whether on the lines suggested or not is immaterial, as long as the improvement be secured.

I have the honor to further recommend : —

- (1) The establishment of the Inspector's Department upon a permanent footing.
- (2) An increase in the department to at least seven inspectors.
- (3) The recognition of the department, or (4) its *abolition*.

I am, sir, very respectfully,

Your obedient servant,

WILLIAM L. CHASE, *Colonel,*

Acting Inspector General M. V. M.

REPORT OF INSPECTION OF THE NATIONAL GUARD OF MASSACHUSETTS.

[DUPLICATE.]

FORT MONROE, VA., Sept. 6, 1893.

*The Adjutant General, U. S. A., Military Information Division, War
Department, Washington, D. C.*

SIR:—I have the honor to report the observations of my visit to the camps of the Massachusetts Volunteer Militia during the past summer, in obedience to par. 6, S. O. No. 121, Headquarters of the Army, A. G. O., Washington, D. C., May 29, 1893, and letter from the Military Information Division, War Department, A. G. O., Washington, May 31, 1893. Upon their receipt, June 2, 1893, as directed in the letter, I immediately reported by letter to His Excellency the Governor of the State for his orders and instructions, and also reported to the Adjutant General of the State for his instructions, and by the latter was requested to report at his office Monday, June 5, at noon, which I accordingly complied with, and was informed of his plans for my accompanying him to the various camps, which plans were so considerably made as to give an opportunity to visit and see the features of the surrounding country, especially near the seacoast extending from Plymouth, on south shore, to near Gloucester, on north shore from Boston, and with little or no expense to myself, for which courtesy I am very much indebted.

The camps visited were as follows:—

The camp of the First Brigade, Brig. Gen. B. F. Bridges, commanding.

The camp of the First Corps of Cadets, Lieut. Col. Thomas F. Edmands, commanding.

The camp of the Second Brigade, Brig. Gen. Benjamin F. Peach, Jr., commanding.

The camp of the Second Corps of Cadets, Lieut. Col. John W. Hart, commanding.

The camps of the First and Second Brigades were upon the same grounds at South Framingham, Mass.; that of the First Corps of Cadets at Hingham, and that of the Second Corps of Cadets at Essex, Mass. I was very cordially received by the commanding officers of the different camps, their staff; also by the Field and Staff of the various regiments and battalions.

At the brigade camp I was assigned a nicely furnished room, in the Governor's building, and a fine mount by the Adjutant General of the State, and at the Cadet Corps camp an equally comfortable furnished wall tent.

My messing at the various camps was provided for by the Adjutant General, and was at the headquarters mess of each command. I was made to feel welcome at any of the messes. The greatest hospitality and courtesy were extended me by all the officers I had the pleasure to meet. All seemed to recognize that I was the officer representing the honorable Secretary of War in their camps.

DESIGNATION.

The troops of the State are the active militia, and designated the Massachusetts Volunteer Militia.

STRENGTH.

The authorized strength of organization, a brigade.

Brigade Commander and Staff.

One Brigadier General; one Assistant Adjutant General (rank, lieutenant colonel); one Medical Director (rank, lieutenant colonel); one Assistant Inspector General (rank, major); one Assistant Inspector General of Rifle Practice (rank, major); one brigade quartermaster (rank, captain); two aides-de-camp (rank, captain); one engineer (rank, captain); one judge advocate (rank, captain); one provost marshal (rank, captain).

Non-Commissioned Staff. — One brigade sergeant major; one brigade quartermaster sergeant; one brigade hospital steward; one brigade provost sergeant; one brigade bugler; one brigade color bearer; two brigade sergeant's clerks.

A Signal Corps, consisting of one first lieutenant, one first sergeant, four sergeants and twenty privates, and an Ambulance Corps consisting of one first lieutenant, three sergeants, four corporals and eighteen privates.

Regimental Field and Staff.

One colonel; one lieutenant colonel; one major for each four companies; one surgeon (rank, major); one adjutant (rank, first

lieutenant) ; one quartermaster (rank, first lieutenant) ; one paymaster (rank, first lieutenant) ; one assistant surgeon (rank, first lieutenant) ; one inspector of rifle practice (rank, first lieutenant) ; one chaplain.

Non-Commissioned Staff. — One sergeant major ; one quartermaster sergeant ; one paymaster sergeant ; one hospital steward ; one drum major ; one chief bugler ; also allowed two color sergeants, one orderly, sixteen drummers.

Battalion of Artillery and Cavalry.

One major ; same staff as regiment, with addition of one veterinary surgeon (rank, first lieutenant), except no inspector of rifle practice for artillery.

Non-Commissioned Staff. — One sergeant major ; one quartermaster sergeant ; one hospital steward ; one chief bugler ; two guidon sergeants.

Company of Infantry. — One captain ; one first lieutenant ; one second lieutenant ; one first sergeant ; four sergeants ; six corporals ; one bugler ; forty-six privates ; minimum enlisted allowed, 41.

Company of Artillery (four guns). — One captain ; two first lieutenants ; one second lieutenant ; one first sergeant ; one quartermaster sergeant ; one stable sergeant ; four sergeants ; nine corporals ; two artificers ; two buglers ; sixty-three privates ; minimum enlisted, 57.

To each battery of more than four guns, one sergeant, two corporals, and not more than sixteen nor less than nine privates for each additional gun ; one additional second lieutenant for each additional two guns.

Company of Cavalry. — One captain ; one first lieutenant ; one second lieutenant ; one first sergeant ; one quartermaster sergeant ; five sergeants ; seven corporals ; two buglers ; sixty-one privates ; minimum enlisted, 56.

A company of artillery or cavalry, unattached, allowed in addition to above, one assistant surgeon (rank, first lieutenant) ; one hospital steward.

Section 22 of Massachusetts Military Law requires that in time of peace the volunteer militia shall consist of not more than seventy-two companies of infantry, three companies of cavalry, three batteries of light artillery, a Signal and Ambulance Corps to each brigade, two Corps of Cadets, and one Naval Brigade.

Section 23 requires the Commander-in-Chief to arrange the infantry, artillery and cavalry into regiments, battalions, and, when

necessary, unattached companies, and not more than two brigades; that there shall be not more than six regiments of infantry, one regiment or more of which, at the discretion of the Governor, shall be trained, instructed and exercised as heavy artillery.

The arrangements under the last section at present are as follows:—

The companies of infantry, into six regiments of three battalions each, of four companies each, and called the First, Second, Fifth, Sixth, Eighth and Ninth Regiments of Infantry; the companies of artillery, into one battalion of artillery of two companies, and one independent company; the companies of cavalry, into one battalion of cavalry, and one independent company; and the above, together with Signal and Ambulance Corps, into brigades. The two Corps of Cadets are among the old Colonial organizations, having special privileges now corresponding to the same as held in old times, and cannot be brigaded by law of the State, which law is confirmed by the laws of the United States.

The following tables give the organization of the brigades, and their strength, of the Corps of Cadets and their strength, and the following table the strength of the whole militia according to arm and total strength:—

Organization and Strength of First Brigade (Brigadier General B. F. Bridges, commanding).

TROOPS.	PRESENT.		ABSENT.		PRESENT AND ABSENT.		PRESENT.	
	Commissioned Officers.	Enlisted Men.	Commissioned Officers.	Enlisted Men.	Commissioned Officers.	Enlisted Men.	Band.	Percentage of Attendance.
Brigadier General,	1	-	-	-	1	-	-	-
Brigade Commissioned Staff, . .	10	-	-	-	10	-	-	-
Brigade Non commissioned Staff, .	-	8	-	-	-	8	-	-
First Regiment Infantry,	46	658	1	38	47	696	40	94.7
Second Regiment Infantry, . . .	45	585	3	86	48	671	30	87.6
Sixth Regiment Infantry,	46	611	-	43	46	654	40	88.0
First Battalion Artillery,	15	170	-	28	15	198	24	87.0
Troop F, Cavalry,	3	72	1	5	4	77	24	92.6
Signal Corps,	1	25	-	-	1	25	-	-
Ambulance Corps,	1	19	-	-	1	19	-	-
Total,	168	2,148	5	200	173	2,348	167	92.2

*Second Brigade, M. V. M. (Brig. Gen. B. F. Peach, Jr.,
commanding).*

Troops.	PRESENT.		ABSENT.		PRESENT AND ABSENT.		PRESENT.	Percentage of Attendance.
	Commissioned Officers.	Enlisted Men.	Commissioned Officers.	Enlisted Men.	Commissioned Officers.	Enlisted Men.	Band.	
Brigadier-General,	1	-	-	-	1	-	-	-
Brigade Commissioned Staff, . .	9	-	-	-	9	-	-	-
Brigade Non-commissioned Staff, .	-	8	-	-	-	8	-	-
Fifth Regiment Infantry, . . .	45	618	2	71	47	689	24	90.00
Ninth Regiment Infantry, . . .	45	620	1	75	46	695	24	90.30
Eighth Regiment Infantry, . . .	44	623	-	45	44	668	24	92.20
Battery A, Light Artillery, . . .	5	99	-	9	5	108	24	91.10
First Battalion Cavalry,	14	142	1	10	15	152	24	98.40
Signal Corps,	1	24	-	1	1	25	-	-
Ambulance Corps,	1	11	-	4	1	15	-	-
Total,	166	2,146	4	215	170	2,360	120	91.3

First Corps Cadets, commanded by Lieut. Col. Thos. F. Edmonds.

Field Staff and Band,	8	4	-	-	8	4	24	100.
Company A,	3	41	-	9	3	50	-	83.02
Company B,	3	49	-	3	3	52	-	94.55
Company C,	2	40	1	4	3	44	-	89.36
Company D,	3	51	-	7	3	58	-	88.52
Total,	19	185	1	23	20	208	24	89.47

Second Corps of Cadets (Lieut. Col. John W. Hart, commanding).

Field Staff and Band,	9	4	-	-	9	4	24	-
Company A,	2	31	-	7	2	33	-	82.5
Company B,	3	37	-	9	3	46	-	81.6
Company C,	3	49	-	9	3	58	-	85.2
Company D,	2	39	-	11	2	50	-	78.9
Total,	19	160	-	36	19	196	24	87.9

Table Showing Strength According to Arm, and Total Strength.

	PRESENT.										TOTAL PRESENT.		ABSENT.							TOTALS.		PRESENT AND ABSENT.										
	General Officers.	Field Officers.	Commissioned Staff.	Non-commissioned Staff.	Captains.	Lieutenants.	Borognets.	Corporals.	Company Musicians.	Privates.	Band.	Commissioned Officers.	Enlisted Men.	Band.	Commissioned Staff.	Non-commissioned Staff.	Captains.	Lieutenants.	Borognets.	Corporals.	Company Musicians.	Privates.	Officers.	Enlisted Men.	Commissioned Officers.	Enlisted Men.	Band.	Aggregate.	Percentage Present of Bands.			
Brigadier General and Staff.	2	-	19	16	-	-	-	-	-	-	-	21	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
First Infantry.	-	5	7	7	11	23	57	64	12	518	40	46	658	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Second Infantry.	-	5	7	7	11	22	56	43	13	464	39	45	545	39	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sixth Infantry.	-	5	7	9	12	22	57	44	11	489	40	46	611	40	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fifth Infantry.	-	5	6	5	11	23	56	61	28	465	24	46	618	24	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ninth Infantry.	-	5	7	6	12	21	59	63	27	465	24	45	620	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Eighth Infantry.	-	4	6	5	11	23	60	45	11	502	24	44	623	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total.	-	29	40	41	68	134	345	324	102	2,903	191	271	3,715	191	1	2	4	17	12	1	326	7	356	278	4,073	191	4,543	-	-	-	-	
First Corps Cadets.	-	2	6	4	4	7	19	22	6	134	24	19	185	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Second Corps Cadets.	-	2	7	4	4	6	19	18	8	113	24	19	180	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Infantry Arm (including Corps Cadets).	-	33	53	49	76	147	388	363	116	3,150	239	309	4,060	239	1	2	5	20	12	1	332	8	417	317	4,477	239	5,033	-	-	-	-	
Artillery (total).	-	1	6	7	3	11	26	36	5	195	48	21	269	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cavalry (total).	-	1	7	7	3	6	20	20	6	161	48	17	214	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Two Signal Corps.	-	-	-	-	-	2	10	-	-	39	-	2	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Two Ambulance Corps.	-	-	-	-	-	2	5	-	-	20	-	2	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total All Arms	2	35	55	79	92	168	444	423	127	3,565	335	372	4,638	335	2	2	6	22	13	1	437	10	474	392	5,112	335	5,829	91.2	-	-	-	

Of the above organization, I should say all the staff are needed.

GENERAL OFFICERS, NUMBER AND MANNER OF APPOINTMENT.

There are two Brigadier Generals of the line, and they are elected by the written votes of the field officers of the respective brigades; the election is ordered in case of vacancy by the Commander-in-Chief.

The Commander-in-Chief appoints the following staff general officers, viz.: The Adjutant General with rank of Major General, who is *ex officio* chief of staff; an Inspector General, a Quartermaster General, a Commissary General, a Surgeon General, and a Judge Advocate General, each with the rank of Brigadier General. The law provides, in time of peace, unless otherwise directed by the Commander-in-Chief, that the Adjutant General shall be Inspector General, Quartermaster General, Commissary General and Chief of Ordnance.

THE APPOINTMENT OF BRIGADE, REGIMENTAL AND BATTALION FIELD AND STAFF.

The field officers of regiments of infantry, battalions of artillery, cavalry and the Corps of Cadets are elected by the written votes of the captains and lieutenants of the several companies of their respective commands, and are afterwards ordered before an examination board, consisting of the permanent commanders of brigades, of the regiments of infantry, of the battalions of artillery and cavalry, the Corps of Cadets and of the Naval Brigade (the latter in law forms part of the M. V. M.). If passed, the board certifies the same to the Commander-in-Chief, who issues the order announcing the result. Medical officers appear before a board of three medical officers. The staff of a brigade is appointed by the commander of the brigade; that of a regiment of infantry, the battalions of artillery and cavalry, Corps of Cadets and the unattached companies, by the permanent commanders thereof. On the requests of the appointing officers the staff are commissioned by the Commander-in-Chief, provided the appointees are eligible.

THE APPOINTMENT OF COMPANY OFFICERS.

Captains and lieutenants of companies are elected by the written votes of the enlisted men of the respective companies, except that in the Corps of Cadets they are elected by the written votes of the enlisted men of the respective corps. Examinations required are the same as for the field officers.

STAFF DEPARTMENTS.

These departments as known in the Regular Army do not exist in the State. The brigade, regimental and battalion belong to the various commands, and those of regiments, battalions of cavalry and artillery and Corps of Cadets wear the uniform of the arm to which they belong, and can only be distinguished by the insignia of the coat collar.

The Adjutant General, in times of peace, performs the duties of Quartermaster General, Commissary General and Chief of Ordnance. As Adjutant General, distributes all orders of the Commander-in-Chief, carries out all his orders relative to executing and perfecting the system of military discipline established by the laws of the State and of the United States, furnishes blank forms for the different returns and rolls, receives returns of commands, reports of condition of arms, uniforms, equipments, etc., delinquencies, and every other thing which relates to the advancement of good order and discipline, and to make such extracts from these reports, as may be required by proper authority. As Quartermaster General, under the orders of the Commander-in-Chief, has care and control of the State camp ground, of the State arsenal and magazine, of all military property of the State excepting certain property by law entrusted to the keeping of other officers, purchases and issues all arms, ammunition, clothing, camp equipment, military supplies and stores of every description, provides transportation and adjusts the accounts of officers responsible for such property. As Commissary General no precise duties are mentioned in the laws.

The Surgeon General purchases and issues all medical supplies and hospital stores and has general supervision and control of all matters pertaining to the medical department of the militia.

The Judge Advocate General reviews all proceedings of courts-martial which require the action of the Commander-in-Chief, brings such suits as the laws require, and is legal adviser of the Military Department of the Commonwealth.

In addition to the staff officers just mentioned, there are four Assistant Adjutants General, one Inspector General of Rifle Practice, five Assistant Inspectors General, four Assistant Quartermasters General, all with the rank of colonel.

The duties of these, excepting of the Inspectors, are merely nominal. The Inspector General of Rifle Practice and the five Assistant Inspectors General form practically a corps of inspectors, and one or more of them attend the troops on whatsoever duty they may be ordered, and have the most important influence for

good conduct and discipline. They report direct to the Adjutant General the efficiency of the troops in all matters and make such suggestions of measures towards more efficiency as may occur to them. These officers hold office during the pleasure of the Commander-in-Chief. If their tenure of office was made permanent or fixed for a certain term I believe it would be a benefit to the service.

THE AMBULANCE AND HOSPITAL CORPS.

The organization of the Ambulance Corps was given in the organization of the brigade of which it is a part. The equipment is one ambulance, two horses and harness for same; one half stretcher for each private; one haversack, properly packed, for each man. The stretcher is narrow, jointed in the middle, the ends of each half terminating in a cross-bar; its weight is one-half that of a rifle musket.

This corps is very expert in the manual of the kit, particularly in the various methods of improvising ways to prepare the sick and wounded for transportation. Each corps made an exhibition before the Governor of some of its ways, and attracted much favorable expression from the spectators. The ambulance officer, whom I accompanied, took a squad to the neighboring woods and in a very short time put together a very creditable travois and in it hauled back from the woods, for a mile, one of the men. It stood the test and was on exhibition the next day.

THE HOSPITAL CORPS.

There is no regular hospital corps. The surgeons, assistant surgeons and stewards form part of the brigade regiments or battalions, and wear the uniforms of the regiments and battalions to which they belong.

There was one brigade hospital, with a few beds, near brigade headquarters. It was in a frame building of light character for summer occupation. At each regimental and battalion headquarters there was a large hospital tent of about four beds and furniture for same, and a fine medical outfit—one medical chest, orderly pouch with everything in it necessary for the care of the sick and wounded in hospital, and a medical supply table was adopted during the last year. I have before me a list of the contents of the pouch and of items of supply table, each of which I think too long to enter in this report.

THE SIGNAL CORPS.

The organization of the corps has also been given in that of the brigade. The kit used was the United States Signal Department

kit. Many (one-third) of the men were new, and the corps had to be worked up from that standard. Signalling by flag was constantly going on in the daytime, and that by torch and lantern till 10 o'clock at night. The progress during the five days camp was excellent.

REGULAR ARMY OFFICERS AND ADVISORY BOARDS.

No Regular Army officer was attached to the headquarters, and I learned of no advisory board connected with the management of this State militia. The Adjutant General directed all camp and field days, in the name of the Commander-in-Chief, and the direction of affairs in camp was left to the respective commanders.

ENCAMPMENTS.

There were four camps in all: one of the First Brigade, from June 6 to 10; the one of the Second Brigade, from July 18 to 22. Both were on the same ground, owned by the State, and located at South Framingham, about twenty-two miles west of Boston, on the Boston & Albany Railroad. The other two encampments were of the Corps of Cadets; that of the First Corps at Hingham, on ground owned by the Corps, and located about seventeen miles south-west of Boston, on an inlet of Boston Harbor, and reached by daily steamer from Boston or by trains of the Old Colony Railroad. The duration of the camp was from July 8 to 15, which was two days longer than the time ordered by the Commander-in-Chief. The Corps gives this time extra, one day of it without pay; the other is counted as Fall Field Day. The Second Corps encamped at Centennial Grove, near Essex, from August 8 to 12, on leased ground, which is located near the branch railroad running from Wenham, on Boston & Maine Railroad, to Essex. The camp grounds were fully described in the report of Capt. H. M. Kendall, Sixth Cavalry, in his report of 1891. The encampments of the brigades were laid out in one long line, running nearly east and west, facing north, the regiments of infantry in line of battalions, the majors' tents in line, about twelve yards in rear of the company officers' line; then came the line of marquee for the band concerts, and next the line of colonels, the proper intervals being given between battalion camps. The artillery and cavalry battalions' camp continued this line except the majors commanding their battalions had their band marquees in line with marquees of the infantry colonels and their own tents on the colonels' line. Then came the line of hospital tents, next of the mess marquees, next of kitchens, next a road running whole length of line behind

the kitchens, next the wash-rooms, and lastly the sinks, the proper intervals and distances being observed, except for sinks, the line of which was irregular according to the conformation of the ground.

The Cadets' camps were laid out on similar plans for the troops, but mess house and kitchens and sinks placed on the flanks and in rear.

The Police of Camp.

Each organization in the brigade camps had the responsibility of the police of its own front and depth. Inspections were made daily by the brigade inspector, the Medical Director of the brigade, and the Assistant Inspector General of the Commander-in-Chief attending the organization. The work was thoroughly and well done.

The camps of the Corps of Cadets had to be policed by their own commands, and were likewise critically inspected by the officer of the day, the surgeon and the Assistant Inspector General attending the camps.

The camps were very clean. The surgeon of the First Corps of Cadets was extremely careful as to the hygienic rules in connection with the camp. The bill of fare had to be approved by him; he prohibited all confectionery, also clam soups. He paid particular attention to disinfecting the sinks, and showed me a new disinfecting powder, perfectly odorless, which also rendered the sinks and floors near them odorless. The same disinfectant was also provided in a liquid form and poured into liquid matter deprived it of all disagreeable odor.

POINTS OF CONCENTRATION FOR SERVICE WITHIN THE STATE.

(a) The Adjutant General has had maps prepared, and on each is marked certain towns and cities, three or more in each regimental district. Each brigade and regimental headquarters is provided with one copy. The following are some of the places: Pittsfield, Springfield, Fitchburg, Worcester, South Framingham, Ayer Junction, Newburyport, Concord and Boston.

The following places are fixed as points of concentration without the State:—

(b) Pittsfield, for service in New York or westward; Springfield and Fitchburg, for service northward; Haverhill and Newburyport, towards New Hampshire and Maine; Springfield and Worcester, for service southward; Boston and Fall River, for expeditions on the Sound. All these points are railroad centres. The regiments and battalions can be concentrated in a very few

hours, not more than eighteen, at one point of a regimental district, and in twelve hours thereafter can be moved to any of these points selected for concentration of the whole force.

(c) Each brigade commander has the address of the home and the business address of the colonels and battalion commanders; each captain of a company has the same of the chiefs of squads, and the latter of the members of their squads. The word of assembling can generally be sent by telephone.

(d) The per cent. of attendance would probably be as much as 87.

The appropriation of the State is about \$213,000. The national appropriation is \$13,122.

ARMAMENT.

The cavalry is armed with the Springfield carbine, calibre .45, and the cavalry sabre; condition very good.

The artillery, Batteries B and C, each with four 3-inch ordnance, muzzle-loading field guns, and two Gatlings; Battery A, with four 12-pounder Napoleons and two Gatlings. The condition of the 3-inch guns and the Gatlings is very good, that of the 12-pounder Napoleons I consider not good. The wheels of the gun carriages are worn out, the spokes are loose in the fellys, and the wood parts old and have more or less lost their life. The vents of two of the guns are worn very large, and of the other two much worn; they need rebushing. There were no front sights or sight seats on the guns of this battery. In its present state the battery is unserviceable.

The infantry is armed with Springfield rifle musket, calibre .45, of three models, of 1873 and 1874 — those without safety notch, those with safety notch, and those with safety notch and Buffington sight. About one-fourth are in poor condition, the rifling being more or less worn. They are generally kept clean. Those of the First Corps of Cadets were absolutely clean; of the Second Corps of Cadets, very clean.

EQUIPMENT.

The cavalry equipment is nearly the same as that of the United States service — one set of horse equipments for each man, carbine, cartridge boxes and belts, haversacks, canteen and straps.

The artillery equipment had full sets of harness equipments and horse equipments necessary for the number of mounted men required for a battery of this kind. The guns and caisson carriages were equipped with the proper implements prescribed in tactics. The limber chests had not the usual tools in the trays. The per-

sonal equipment was the sabre and belt, haversack, canteen and straps. None of the batteries were provided with the battery wagon and travelling forge.

The equipment was in fair condition except the harness. Many repairs have to be made annually. The leather has probably lost most of its life from age. The carriages also sometimes need repair. The State allows annually to each separate battalion headquarters, Corps of Cadets, company, Signal and Ambulance Corps \$1.75 for each enlisted man in each organization, based upon average attendance at tours of duty, for repair of uniforms and other property of the Commonwealth. The wear and tear of a light battery or company of cavalry in the way of damage to its equipments, especially harness and horse equipments, is necessarily much greater than that of an infantry soldier, yet the amount for repairs is the same for all arms. It is claimed by the artillery batteries the appropriations in this respect are not enough to meet the repairs of a light battery.

The Infantry.

Each man is supplied by the State with gun slings, swords and belts for non-commissioned officers, bayonet scabbards, canteens and straps, cartridge box, belt and plate, haversack and box knapsack, all in good condition.

UNIFORM CLOTHING.

The State issues to the enlisted men, not of the First Corps of Cadets, a dress coat, and a great-coat, pair of trousers, a blouse, a cap and ornament, black and white helmet complete; chevrons for non-commissioned officers. The captain of a company is allowed \$1.75 per man a year for repairing uniforms and other property of the State. Blankets, shoes and underclothing have to be supplied by the men for themselves. The uniform of each enlisted man conforms as nearly as practicable in color and character to that of the United States soldier, except that the infantry adheres to the dark blue facings instead of white.

The dress uniform of the First Corps of Cadets consisted of a white dress coat, a shako dress hat, and light blue trousers; otherwise the uniform was that of the infantry of the brigade.

The Corps owns its own uniform, and supplies also to its men a brown canvas suit used for fatigue. The Second Corps of Cadets wears the scarlet dress coat, the old dress hat of the United States Corps of Cadets, with blue pompon, with red tips. Great care was given throughout to cleanliness and proper fitting of uniform. Only the yearly allowance is supplied by the State; but little is kept on

hand for reserve, and that more from the fact that clothing is re-issued after having been worn but little.

All arms, equipments, clothing, etc., have to be deposited in the armories after having been used for any purpose of duty, and it is forbidden for any person to wear or use them except when on military duty.

HORSES, OWNERSHIP OF.

They are generally hired. Some few of the cavalry enlisted men supply their own horses.

AMMUNITION.

About seventy-five to one hundred thousand rounds of ammunition for small arms are kept on hand at the State Arsenal at South Framingham, and twenty thousand rounds of the same in the city of Boston for emergency, all in good condition.

The First Corps of Cadets keeps on hand in the armory about five thousand rounds, and could habitually march with twenty rounds per man, depending upon State supply for balance. Any amount required could be obtained on short notice. No artillery ammunition kept on hand, and must depend upon supplies from the United States Ordnance Department in case required.

CAMP AND GARRISON EQUIPAGE.

(a) There are on hand at the State Arsenal 850 wall tents, 150 wall-tent flies, tent poles and pins for same. There are no shelter tents.

(b) There are no field mess outfits, nor cooking utensils.

PROPERTY ACCOUNTABILITY.

Every commissioned officer to whom property is issued for use of his command has to give receipts to the issuing officer, the superintendent of the State Arsenal, and has to make semi-annual returns of the same to the Adjutant General.

A company commander is allowed \$50 per year responsibility money, which generally covers losses.

Natural wear and tear losses can be covered by affidavits and action of board of survey. The regulations as to care and responsibility of public property are rigidly enforced by the Adjutant General. I looked over the books in his office and saw the accounts of several company commanders, and the charges made against them from the responsibility money in certain cases.

SUBSISTENCE.

There is no regular ration provided by law. The officer or soldier has to provide his subsistence out of his pay. In camp the enlisted men are fed by contract with caterers, usually citizens, and the cooks are civilians. In some companies the catering is done by some officer of the company. In actual service under present laws similar methods would have to be adopted and civilian cooks hired if possible; otherwise the company commanders would have to draw supplies at the start and get them cooked as best they could.

Under section 127, Militia Laws 1893, the Commander-in-Chief may order rations issued to troops on duty, and the cost of the same shall be deducted from the pay of the troops.

PAY AND ALLOWANCES.

When on duty, under sections 98, 99, 106, 107, and 114 of the Militia Laws, which duties are defined as follows:—

First. To repel an invasion or subdue an insurrection;

Second. To quell a riot or other armed disturbances against the laws;

Third. On field day each year;

Fourth. On the five consecutive days of camp duty each year;

Fifth. On escort duty ordered by the Commander-in-Chief —

The pay and allowances are as follows:—

Brigadier General, per diem,	\$15 28
Colonel,	9 73
Lieutenant colonel,	8 33
Major,	6 95
Captain (mounted),	5 55
Captain (not mounted),	5 00
Adjutant, quartermaster, assistant surgeon, pay- master, and assistant inspector of rifle practice,	5 00
First lieutenant (mounted),	4 75
First lieutenant (not mounted),	4 17
Second lieutenant (mounted),	4 17
Second lieutenant (not mounted),	3 89
Chaplain,	4 17
Non-commissioned staff officers,	2 50
Members of band,	4 00
Drummers and buglers,	3 50
Other enlisted men,	2 00

For other duty than above specified, general and field officers get \$4 per diem; line officers, \$2.50; enlisted men, \$2. Additional per annum: the Assistant Adjutant General of brigade, \$20; an

adjutant, \$50; a paymaster for each company, \$12.50; company and Cadet Corps commanders, \$50; Signal Corps commanders, \$25 and Ambulance Corps commander, \$15. Mounted officers and soldiers, additional per diem for horse, \$4. Mileage: travelling with troops, 2 cents per mile; without troops, 4 cents per mile.

STORES.

Stores are purchased by the Adjutant General, in his capacity as Quartermaster General, either by contract or in open market. I do not understand that contracts are advertised by law. The medical supplies are purchased in like manner by the Surgeon General.

Stores required in addition to those now on hand to enable the command to take the field for sixty days. Upon careful consideration I see no reason for changing my estimates of last year, and repeat them.

CAMP EQUIPAGE.

Eight hundred axes and helves; 800 hatchets and helves; 520 spades; 520 pickaxes and helves; 520 camp kettles; 1,300 mess pans; 2,500 shelter tents, complete, or an equivalent in A tents.

ARTILLERY AMMUNITION.

Three-inch Ordnance Muzzle-loading Guns, two Batteries, four Guns each.

One hundred and sixty canister; 160 time shell; 640 percussion shell; 400 case shell; 160 solid shot; 1,650 cartridges; 1-lb. complete, 2,500 friction primers; 920 paper time fuze, 10, 15, 20, 25 seconds, equal proportions.

Twelve-pounder Four-Gun Napoleon Battery.

Sixty-four shell, fixed (with Bormann fuze); 192 spherical case, fixed (with Bormann fuze); 192 solid shot, fixed; 64 canister, fixed; 700 friction primers.

Equipments. — Twenty-four vent punches; 24 gunner's pincers; 24 fuze wrenches; 16 fuze cutters; 8 fuze gouges; 36 tow hooks; 12 long-handled shovels; 12 felling axes; 12 picks, 8 pendulum hausses for 3-inch ordnance guns.

MESS OUTFIT.

Four thousand five hundred tin cups; 4,500 knives and forks; 4,500 meat cans.

SMALL-ARM AMMUNITION.

Twenty-one thousand ball cartridges, calibre .45 Springfield rifle; 10,500 ball cartridges, calibre .45 Springfield carbine.

MEDICAL SUPPLIES.

I should think those on hand sufficient. Each organization has a well-equipped orderly pouch, containing assorted bandages, anti-septic gauze, package surgical cotton, hard-rubber pus basin, one-half pound ether, one ounce petroleum ointment, one elastic catheter, one pair of scissors, one paper of pins, one paper of safety pins, eight ounces of brandy, one ounce flexible collodion, one bottle of drainage quills, one bottle of sterilized silk, one package surgeon's needles, one spool adhesive plaster, one medicine vial case and contents, one hypodermic case and usual contents; also pocket cases fitted with the newest pattern of instruments.

Each organization is also provided with a medicine chest and a supply of medicines, as per adopted supply list recently approved by a board of surgeons.

The supplies are purchased by or upon orders of the Surgeon General in open market.

DRILLS AND CEREMONIES.

The companies are expected to assemble in their armories for drill and instructions once a week, which instruction is entirely practical, consisting of exercises in the school of the soldier and of the company, and in some cases companies are mounted as a guard, divided into reliefs, and the formality of posting sentinels and relieving them gone through with. The main reliance, however, for instruction in drills and ceremonies is that afforded by the five continuous days of camp. The battalions of some of the regiments assemble in their armories once a month, but in others the companies are so very much scattered it is difficult to assemble them at all for drills and ceremonies except at their annual camp.

Each troop of the cavalry battalion has three drills a month, each in its own armory, and the battalion four drills a year (dis-mounted); the remainder of the instructions in the way of drills and ceremonies is at camp or on Fall Field Day.

In the camps the following are the usual drills and ceremonies required daily: camps of the brigade; setting-up drills of all arms immediately after reveille; regimental guard mounting at 8.10 A.M.; inspection of quarters immediately after guard mounting; infantry, cavalry and artillery drills for an hour each forenoon; the same for an hour each afternoon; dress parade near sunset.

The drills and ceremonies of the Corps of Cadets were the same as to numbers, but all pertaining to the infantry arm.

The scope of the drills of the infantry included those prescribed in the new infantry tactics in the open-order drill of the company;

the battalion, both in school of the battalion and open order; the evolutions of the regiment. Two regiments tried the open-order drill for the regiment, but the drill grounds were too limited for full development.

The light battery drills in the forenoon included the drill of the driver and of the battery, and the school of the battery and the battalion in the afternoon.

The cavalry drills included those of the troop and battalion.

In all of the arms it was apparent at once that the field and company officers were well posted and more or less accustomed to the work. In the regimental drills the majors and captains were prompt in executing the commands and in giving certain preparatory commands to be in readiness for the final command of execution. Some mistakes occurred either from not hearing the preparatory commands of the colonel or other cause, but it was noticeable because of the readiness with which any mismovement was corrected upon full comprehension of what was wanted. I think the proficiency of the infantry of the brigade in drills and ceremonies very good; that of the corps of cadets in all drills excellent; that of the mounted artillery much better than could be expected considering they started with green horses upon the beginning of camp. The remarks apply equally to the cavalry. Both arms at the end of camp could make a creditable battery, troop or battalion drill at the gait of a walk. At the reviews they attracted favorable remarks from all observers.

As previously mentioned, one regiment of infantry is required to be drilled and instructed in heavy artillery. The First Regiment is the one designated, and during its five days in camp had detachments drilling at the manual of the piece at the 10-inch Rodman guns and the 10-inch mortar batteries (siege); also had firing practice with the mortars. Upon one of my visits at one of their drills they showed good familiarity with the drill.

THE GOVERNOR'S DAY.

One of the most prominent features of each camp is what is known as Governor's Day. This is the day of the review of the troops by the Governor or Acting Governor; it is usually the day, next before the breaking of camp, and is generally attended by members of the Governor's Council, by members of the Military Committee of both branches of the Legislature, and by a large number of officers of all the camps and friends of the militia officers and men.

This year, owing to the absence of the Governor from the State, the Lieutenant Governor attended the reviews of the camp of the

First Brigade and of the First Corps of Cadets, and the Governor the reviews of the Second Brigade and the Second Corps of Cadets.

Owing to the size of the three regiments of infantry, each of three battalions, together with the cavalry and mounted artillery present, the brigades when in line presented an imposing appearance and reminded one forcibly of warlike preparations. The troops marched well at the review, kept well dressed, observed distances well, and the results must have been very satisfactory to the brigade and subaltern commanders.

The reviews of the Corps of Cadets also attracted very much attention and many visitors, and as usual marched and looked well on the occasion of this year.

FIELD EXERCISES.

Each organization is allowed by law one day for field exercises, and it is known as Fall Field Day. By permission of proper authority it may be dispensed with, and the day added to the time allowed in camp. Duties of this additional day are supposed to be of light character, as expected of troops on Fall Field Day.

The following is an extract from the report of Lieut. Col. L. J. Logan of the duty performed by his command, the Ninth Regiment of Infantry, last fall: —

In accordance with Regimental Orders, No. 6, the six companies located in Boston reported to Lieutenant Colonel Logan at the East Armory at 8.45 A.M. and after forming line took up march to Boston Common, arriving at 9.40 A.M. Six companies, under Maj. W. H. Donovan, reported on Boston Common at 9.30 A.M. Regimental line was formed and the regiment turned over to Colonel Strachan.

The regiment was exercised in regimental movements, after which the battalions formed separately, street column and squares.

Street firing with blank cartridges was practised. The companies were then dismissed and ordered to report back at 12 o'clock. Upon the companies reporting back, line was formed and the regiment started for corner of Columbus Avenue and Berkeley Street and reported to Gen. M. T. Donohue, chief marshal, to take part in the procession of the Columbian parade.

TROOP F, FIRST CAVALRY.

The troop assembled at Carlisle Centre at 8 o'clock A.M., many of the men coming over the road mounted, squads coming from Westford, Chelmsford and Ayer, 8, 10 and 15 miles off, respectively. The horses were inspected at once by the veterinary surgeon. The command at 9 A.M. proceeded to a field $1\frac{1}{4}$ miles distant and had drill in Company movements. In the afternoon a sham battle was had, the troop divided into two parts, skirmishers deployed on both sides; firing of blank cartridges was executed. Strength of troop, three officers and sixty-four enlisted men.

The other troops, regiments and battalions, except the First Corps of Cadets, had some exercise and rendered reports of the same to the Adjutant General of the State.

PERSONNEL AND DISCIPLINE.

The *personnel* of the officers is excellent, nearly all well educated and intelligent men; some are graduates of colleges. The *personnel* of the enlisted men is good; a majority look quite young. The medical department of the State keeps a sharp lookout both of the officers and enlisted men; any men found physically weak or inefficient are recommended for discharge.

I think the discipline very good. In the militia the word has significance more in connection with obedience and respect of juniors to superiors when on duty. There is more or less intimacy between the enlisted men and the officers off duty, but from the system of elections such must be expected, and is not altogether an evil. In the First Corps of Cadets both the *personnel* and discipline must be called excellent.

INSTRUCTION, THEORETICAL AND PRACTICAL.

There is no particular instruction given that can be called theoretical. Company commanders have now and then talks with the non-commissioned officers and men. Officers are encouraged to keep well posted on current military literature. In the First Corps of Cadets the commandant gives an annual lecture.

To aid instruction in guard manual, circulars are issued by some of the battalion commanders, giving the duties of sentinels under various circumstances, the general orders of a sentinel, and the duties of a sergeant and a corporal of the guard. The practical instruction is such as must be obtained at the drills, ceremonies, and actual duties on guard, as previously mentioned under that heading.

GUARD DUTY.

Great attention is given to the proper performance of this duty. In the brigade camp two staff officers of the brigade commander are especially detailed to question guards and sentinels and observe the general manner of performance of duty; also one of the Assistant Inspector Generals of the Commander-in-Chief's staff performs like duty. I accompanied one of the latter inspectors to hear the questioning of the members of the guard at each one of the camps, during which no one was omitted; it included the officers and non-commissioned officers as well as the privates of the guard.

The officers and non-commissioned officers were well instructed. There were a good many privates who seemed quite staggered upon hearing some of the questions relative to their ordinary duties. The latter while on post performed their duties usually in a military and intelligent manner. The sentinels of the First and Second Corps of Cadets were well instructed. Of the many sentinels of the First Corps whom I heard give their orders, scarcely a mistake was made.

TARGET PRACTICE.

The cavalry and infantry were required to have certain preliminary practice before going to the regular ranges, but few of the armories had gallery ranges and this instruction (preliminary) was confined to aiming drills. For the troops about and in Boston the regular range was the one known as Walnut Hill range, owned by private parties, and the shooting was done on tickets supplied by the State. Until this last summer much of the unfinished firing was done at the camp ranges, but this year the range at South Framingham was condemned as unsafe.

The First Corps of Cadets has a 200-yard range immediately in rear of a part of its camp; the range has two targets. There is a very good small-arm range at Worcester, which includes the short and mid ranges; otherwise the troops have to get opportunities as best they can for regular practice.

There is no range for mounted artillery practice secured by the State and no practice is held. No ammunition is kept for the purpose.

For heavy artillery practice there is a short mortar range at the camp at South Framingham.

The system is generally that of Blunt's, except classification, which is as follows: —

	Range, yards.
Third class, two scores, 15 out of 25, . . .	200
Second class, two scores, 18 out of 25, . . .	200
First class, two scores, 21 out of 25, . . .	200
And two scores, 21 out of 25, . . .	500
Sharpshooters, two scores, 22 out of 25, . . .	200
And two scores, 24 out of 25, . . .	500
And two scores, 23 out of 25, . . .	600

TRANSPORTATION.

There is no transportation of any kind owned by the State, but troops can be moved westward, north-west, north-east, and south-west at any time by three or four different railroad routes, and, the State having a long sea-coast and many good harbors, both on

coast and Long Island Sound, frequented by fine sailing vessels and steamships, transportation by water can readily be attained to any part of this country or the Americas.

MILITARY CODE.

Chapter 367, Acts of 1893, section 166, contemplates the service of the militia to be called for by the President of the United States, and states that when in the service of the United States, if paid by the State, the pay and allowances will be the same as of the regular troops of the United States, and the ration, when commuted, shall be valued at the rates fixed by the regulations of the United States Army in force at the time; and when discharged, shall be allowed pay and rations to their respective homes.

REGULATIONS.

I understand there is a book of State regulations for the government of the militia, called "Massachusetts Regulations."

MAPS, ETC.

I found no maps at any headquarters except the one already referred to showing points of concentration of troops within the State. There were no surplus ones of those.

ARMORIES, LOCATION AND DESCRIPTION OF.

I am not able to give the information called for on this subject, but expect the information in due time from the Adjutant General of the State.

ARSENALS.

There is only one State arsenal, which is at South Framingham. It is a brick building two and a half stories high, 200 by 40 feet; cellar, 7 feet; first and second floors, 11 feet high. The cellar is used as store-room for tent poles and packing boxes; the first floor for superintendent's office, store-room and artillery equipment property. The second floor has repair shops, clothing and infantry equipments. The attic is used for the storage of tents.

INDEPENDENT COMMANDS WITHIN THE STATE.

They are the following, viz. : —

1. The Ancient and Honorable Company of Artillery.
2. The Veteran Artillery Association of Newburyport.
3. The Veteran Cadet Association of Salem.
4. The Veteran Association of the Independent Corps of Cadets, Boston.

5. The Salem Light Infantry Veteran Association.
6. The Veteran Artillery Association of Amesbury and Salisbury.
7. The Boston Light Infantry Association.

The above are in no way considered as a part of the militia. Other than the above and the militia, no body of men are permitted to associate themselves together for drill, or parade with fire-arms, or maintain an armory in any city or town of the Commonwealth, provided that associations wholly composed of soldiers honorably discharged from the service of the United States may parade in public with arms upon the reception of any regiments or companies of soldiers returning from service, or for the purpose of escort duty at the burial of deceased soldiers, having first obtained written permission to do so from the mayor and aldermen of the cities or selectmen of the towns in which they desire to parade; also, students in educational institutions where military service is a prescribed part of the course of instruction may, with the consent of the Governor, drill and parade with arms, under the superintendence of their teachers.

RECOMMENDATIONS.

The superior officers in control of the militia of the State have had much experience in military matters, some in the United States volunteers in the late war, some in the regular service of the United States, both Army and Navy, and others much service in the militia of their own State. They are capable and like to work out for themselves all new military matters, as the "Drill Regulations," "Guard Manual," etc. They ask very few questions. As to any aid that can be given them, there is a strong feeling, long existing, that the most practical way is for the general government to authorize the change of their obsolete arms for the latest model of government arm.

Respectfully submitted,

M. P. MILLER,
Major Fifth Artillery.

REPORT OF THE SURGEON GENERAL.

COMMONWEALTH OF MASSACHUSETTS,
OFFICE OF SURGEON GENERAL, BOSTON, Dec. 31, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General, Massachusetts.*

SIR:—In conformity with regulations governing the Massachusetts Volunteer Militia, which require that the annual report of this office shall be submitted to the Commander-in-Chief through the office of the Adjutant General, on or before the fifth day of January of each year, I have the honor to herewith forward the accompanying, and remain,

Very respectfully, your obedient servant,

THOMAS KITTREDGE,
Surgeon General, Massachusetts.

OFFICE OF SURGEON GENERAL, BOSTON, Dec. 31, 1893.

To His Excellency WILLIAM E. RUSSELL,
Governor and Commander-in-Chief.

SIR:—I have the honor to submit the following report of this office for the year 1893.

STATE AID.

I have examined during the year one hundred and twelve applicants for State and military aid, a slight falling off from last year. All of these have been deserving men and there have been no doubts about their incapacity for work to a greater or lesser degree.

But one case has been sent to me for examination for admission to the national homes, owing to the fact, I presume, of there being no vacancies at these homes.

MILITIA.

The physical condition of the State troops has been good. A few more physically weak and inefficient men have been discharged, and to-day, as far as I know, there are in the service none but able-bodied and effective men.

I wish to renew my recommendations of last year: That a thorough physical examination of every officer and man be made before he is accepted into the military service of the State, and only those coming up to the desired standard be accepted; that more attention be given to the physical training of officers and men, a gymnasium established in every armory, and a systematic course of athletic exercises prescribed and carried out under a proper instructor; that a working suit of duck be provided for the men; that officers (particularly medical officers) be allowed to wear white duck trousers and coats for fatigue duty; that some more modern and more comfortable form of knapsack be provided; that a system of drainage at the State camp-ground be established; that a bath-house for each organization be provided, also bins for fuel, and garbage pails; that buckets be placed in the cells of the prison; that a system of feeding troops in conformity to military usages be adopted, together with an emergency ration.

I renew my recommendations of last year, that assistant surgeons serving five years continuously be given the rank and pay of captains of infantry, and that the medical department be made a staff corps. This could be arranged so that by competitive examinations and the establishing of a waiting list the danger of favoritism and the appointment of inefficient men could be avoided.

At my suggestion, loose box stalls were constructed in the cavalry and artillery stables at the State camp-ground previous to the annual encampments.

MEDICAL DEPARTMENT.

Early in the year, owing to the special appropriation, I was able to complete the new outfit spoken of in my last two reports. New field operating cases (of the new United States Army pattern) were purchased and one issued to each medical officer. The old medicine chests were bound and strengthened with brass, and refitted with bottles to hold drugs and medicines in the compressed form. It was necessary to not only have these bottles made to order but also to have the moulds for the bottles made. These are now the property of the State, and, together with some extra bottles, are stored at Melvin & Badger's, with the medicine chests. Three entirely new chests were made, one for the Second Corps of Cadets, one for the Naval Battalion, and one for use at headquarters. The veterinary department was supplied with saddlebags, veterinary-instrument cases, horse slings and all the appliances that might be needed in that department. Flies for the regimental hospitals, and splints and antiseptic dressings for the brigade hospital, were provided.

AMBULANCE CORPS.

The Ambulance Corps have done their usual good work, although one of the corps is not in as good condition as it should be. Preparations have nearly been completed for enlarging the corps in accordance with the provisions made by the last Legislature.

I renew my suggestion of last year that four men in each company of the different organizations be trained as company bearers, as an adjunct to the Ambulance Corps.

Each of the State encampments was visited by me, with the exception of the encampment of the Second Corps of Cadets. Being out of the State, on other duty, Maj. William L. Richardson was detailed to visit that camp. I enclose his report.

Each of these encampments was found in good sanitary condition. No unusual amount of sickness occurred and no serious accidents happened.

Acting under instructions from you, I, in company with Lieutenant Colonel Burrell, Medical Director First Brigade, M. V. M., attended the third annual meeting of the Association of Military Surgeons of the National Guard of the United States, held at Chicago, August 8 to 11. The scope of the organization was enlarged by taking in medical officers of the United States Army, Navy and Marine Hospital Corps, and the name changed to Association of Military Surgeons of the United States. The meeting was a most interesting one—many instructive papers being read by representatives of the army and national guard of the different States.

In closing I wish to thank you, sir, for your uniform kindness and courtesy to me at all times, and the medical staff for their cordial support and loyalty. I have found them always faithful, prompt, and ever ready to serve the State in every way required of them.

Maj. William C. Capelle, of the Adjutant General's office, from his long service and perfect familiarity with the office, has been of great assistance to me and his services have been most valuable.

I submit for your consideration, as a part of this report, the reports of medical officers, the roster of the medical department, together with a schedule of the property of the State for which I am responsible.

I have the honor to be, very respectfully, your obedient servant,

THOMAS KITTREDGE,
Surgeon General, Massachusetts.

Roster of Medical Officers, M. V. M., in Order of Lineal Rank.

	NAME.	Residence.	Rank.	Date of Commission.	Organization.
<i>Medical Directors.</i>					
1	Herbert L. Burrell,	Boston,	Lt. Col.,	Feb. 20, 1889,	First Brigade.
2	Freeman C. Hersey,	Boston,	Lt. Col.,	April 13, 1891,	Second Brigade.
<i>Surgeons.</i>					
1	William L. Richardson,	Boston,	Major,	Nov. 6, 1875,	First Corps of Cadets.
2	David Clark,	Springfield,	Major,	Aug. 25, 1876,	Second Regiment Infantry.
3	Otis H. Marion,	Allston,	Major,	April 18, 1883,	First Regiment Infantry.
4	Charles H. Rice,	Fitchburg,	Major,	Dec. 27, 1884,	Sixth Regiment Infantry.
5	Charles H. Cogswell,	Boston,	Major,	Dec. 8, 1887,	First Battalion Cavalry.
6	William H. Devine,	Boston,	Major,	May 1, 1888,	Ninth Regiment Infantry.
7	Benjamin R. Symonds, Jr.,	Salem,	Major,	Jan. 18, 1889,	Second Corps Cadets
8	Charles C. Foster,	Cambridge,	Major,	March 22, 1889,	Fifth Regiment Infantry.
9	John F. Harvey,	Boston,	Major,	May 26, 1893,	First Battalion Artillery.
10	Thomas Amory DeBlois,	Boston,	Lieut.,	Nov. 18, 1893,	Naval Brigade
11	Vacancy, . . . . .	. . . . .	Major, . . . . .	. . . . .	Eighth Regiment Infantry.
<i>Assistant Surgeons.</i>					
1	Orland J. Brown,	North Adams,	1st Lieut.,	Sept. 20, 1878,	Second Regiment Infantry.
2	Charles M. Green,	Boston,	1st Lieut.,	Aug. 3, 1881,	First Corps Cadets.
3	Howard S. Dearing,	Boston,	1st Lieut.,	April 1, 1887,	First Regiment Infantry.
4	D. F. O'Callaghan,	Boston,	1st Lieut.,	June 15, 1888,	Ninth Regiment Infantry.
5	Amasa Howard,	Chelmsford,	1st Lieut.,	Feb. 19, 1889,	Troop F, Cavalry.
6	H. Lincoln Chase,	Brookline,	1st Lieut.,	July 25, 1889,	Fifth Regiment Infantry.
7	Omer P. Porter,	Lowell,	1st Lieut.,	April 15, 1890,	Sixth Regiment Infantry.

Roster of Medical Officers, M. V. M., in Order of Lineal Rank—Concluded.

	NAME.	Residence.	Rank.	Date of Commission.	Organisation.
<i>Assistant Surgeons—Concluded.</i>					
8	Charles S. Millet,	Rockland,	1st Lieut.,	May 17, 1890,	First Battalion Cavalry.
9	James E. Simpson,	Salem,	1st Lieut.,	May 18, 1891,	Second Corps Cadets.
10	Gardner W. Allen,	Boston,	Lt. J. G.,	March 22, 1893,	Naval Brigade.
11	Charles W. Galloupe,	Boston,	1st Lieut.,	Sept. 13, 1893,	Battery A.
12	Edward H. Abbé,	New Bedford,	Lt. J. G.,	Oct. 19, 1893,	Naval Brigade.
13	Vacancy, . . . . .	. . . . .	1st Lieut., . . . . .	. . . . .	Eighth Regiment Infantry.
<i>Veterinary Surgeons</i>					
1	Austin Peters,	Boston,	1st Lieut.,	June 29, 1891,	First Battalion Cavalry.
2	Frederick H. Osgood,	Boston,	1st Lieut.,	April 5, 1893,	First Battalion Artillery.
<i>Ambulance Officers.</i>					
1	Myles Standish,	Boston,	1st Lieut.,	March 1, 1889,	First Brigade.
2	Arthur W. Clark,	Boston,	1st Lieut.,	Nov. 9, 1889,	Second Brigade.

Property in use, Medical Department, M. V. M.

NAME.	Rank and Title.	Organization.	Property in Charge.
Herbert L. Burrell, .	Lieut. Col., Medical Director,	First Brigade, .	Field operating case, medicine chest.
Freeman C. Hersey, .	Lieut. Col., Medical Director,	Second Brigade, .	Medicine chest and field operating case.
William L. Richardson, .	Major and Surgeon, .	First Corps Cadets, .	Field operating case, medicine chest, pocket case and orderly pouch.
David Clark, . . .	Major and Surgeon, .	Second Reg't Infantry, .	Field operating case, pocket case, medicine chest and orderly pouch.
Otis H. Marion, . .	Major and Surgeon, .	First Regiment Infantry, .	Field operating case, pocket case, medicine chest and orderly pouch.
Charles H. Rice, . .	Major and Surgeon, .	Sixth Regiment Infantry, .	Field operating case, pocket case, medicine chest and orderly pouch.
Charles H. Cogswell, .	Major and Surgeon, .	First Battalion Cavalry, .	Field operating case, pocket case, medicine chest and orderly pouch.
William H. Devine, .	Major and Surgeon, .	Ninth Regiment Infantry, .	Field operating case, pocket case, medicine chest and orderly pouch.
Benjamin R. Symonds, Jr.,	Major and Surgeon, .	Second Corps Cadets, .	Field operating case, pocket case, medicine chest and orderly pouch.
Charles C. Foster, . .	Major and Surgeon, .	Fifth Regiment Infantry, .	Field operating case, pocket case, medicine chest and orderly pouch.
John F. Harvey, . . .	Major and Surgeon, .	First Battalion Artillery, .	Field operating case, pocket case, medicine chest and orderly pouch.
Thomas Amory DeBlois, .	Lieutenant and Surgeon, .	Naval Brigade, . . .	Field operating case, medicine case and orderly pouch.
Orland J. Brown, . . .	1st Lieut., Assistant Surgeon,	Eighth Reg't Infantry, .	Field operating case, pocket case, orderly pouch.
Charles M. Green, . . .	1st Lieut., Assistant Surgeon,	Second Infantry, . . .	Field operating case.
		First Corps Cadets, . .	Field operating case.

Property in use, Medical Department, M. V. M. — Concluded.

NAME.	Rank and Title.	Organization.	Property in Charge.
Howard S. Dearing,	1st Lieut., Assistant Surgeon,	First Regiment Infantry,	Field operating case.
Denis F. O'Callaghan,	1st Lieut., Assistant Surgeon,	Ninth Regiment Infantry,	Field operating case.
Amasa Howard,	1st Lieut., Assistant Surgeon,	Troop F, Cavalry, . . .	Field operating case, pocket case, medicine chest and orderly pouch.
H. Lincoln Chase,	1st Lieut., Assistant Surgeon,	Fifth Regiment Infantry,	Field operating case.
Omer P. Porter,	1st Lieut., Assistant Surgeon,	Sixth Regiment Infantry,	Field operating case.
Charles S. Millet,	1st Lieut., Assistant Surgeon,	First Battalion Cavalry,	Field operating case.
Charles W. Galloupe,	1st Lieut., Assistant Surgeon,	Battery A, Artillery, . .	Field operating case, pocket case, medicine chest and orderly pouch.
James E. Simpson,	1st Lieut., Assistant Surgeon,	Second Corps Cadets,	Field operating case.
Austin Peters,	1st Lieut., Veterinary Surgeon,	First Battalion Cavalry,	Case veterinary instruments and saddle bags.
Frederick H. Osgood,	1st Lieut., Veterinary Surgeon,	First Battalion Artillery,	Case of veterinary instruments and saddle bags.
Gardner W. Allen,	Lieut. J. G., Assist Surgeon,	Naval Brigade, . . .	Field operating case and orderly pouch.
Edward H. Abbé,	Lieut. J. G., Assist Surgeon,	Naval Brigade,	Field operating case and orderly pouch.
	(Vacancy),	Eighth Reg't Infantry, .	Field operating case.

Consolidated Report of Surgical Instruments, Medicines and Hospital Property, for which the Surgeon General is responsible.

	On Hand from Last Return.	Purchased and taken up 1893.	Total to be ac- counted for.	Expended.	Total disposed of.	Remaining on hand to be ac- counted for.	In Hands of Militia.	In Hands of Sur- geon General.	At State Arsenal.	At Melvin & Badger's.
General operating cases,	3	—	3	3	3	—	—	—	—	—
U. S. A. operating cases,	8	—	8	8	8	—	—	—	—	—
Field operating instrument cases,	—	25	25	—	—	25	25	—	—	—
Veterinary instruments,	—	3	3	—	—	3	3	—	—	—
Covers and belts for instrument cases,	—	28	28	—	—	28	28	—	—	—
French knapsack,	1	—	1	—	—	1	—	1	—	—
Set of dental instruments,	1	1	1	—	—	1	—	—	—	—
Forceps,	—	12	12	—	—	12	12	—	—	—
Medicine cases (wood),	11	3	14	—	—	14	13	—	1	—
Medicine cases (leather),	3	—	3	—	—	3	2	1	—	—
Surgeon's field companions,	19	—	19	—	—	19	4	7	8	—
Field stretchers,	2	—	2	—	—	2	—	—	2	—
Splints, sets,	2	1	3	—	—	3	1	—	2	—
Meteorological instruments,	2	—	2	—	—	2	—	—	2	—
Earth-closet,	1	—	1	—	—	1	—	—	1	—
Ambulance (hand),	1	—	1	—	—	1	—	—	1	—
Ambulance (two-horse),	1	—	1	—	—	1	—	—	1	—
Harness (two-horse), sets,	1	—	1	—	—	1	—	—	1	—
Anatomical charts,	8	—	8	—	—	8	8	—	—	—
Surgeon's pocket cases,	14	3	17	—	—	17	16	1	—	—
Bedsteads, camp (iron),	20	—	20	—	—	20	—	—	20	—
Thermometer and case,	1	1	1	—	—	1	1	—	—	—
Bed-pans,	—	1	1	—	—	1	1	—	—	—

Consolidated Report of Surgical Instruments, Medicines and Hospital Property, etc. — Concluded.

	On Hand from Last Return.	Purchased and taken up 1898.	Total to be ac- counted for.	Expended.	Total disposed of.	Remaining on Hand to be ac- counted for.	In Hands of Militia.	In Hands of Sur- geon General.	At State Arsenal.	At Melvin & Bodger's.
Blankets,	68	—	68	2	2	66	—	—	66	—
Chairs,	28	—	28	—	—	28	—	—	28	—
Chests, storage,	2	3	5	—	—	5	2	—	1	—
Cots,	10	—	10	—	—	10	—	—	10	—
Cuspidors,	10	—	10	—	—	10	—	—	10	—
Crutches (pairs),	1	—	1	—	—	1	—	—	—	—
Candlesticks,	6	—	6	2	2	4	—	—	—	—
Lanterns,	6	—	6	1	1	5	—	—	—	—
Lamps,	6	—	6	2	2	4	—	—	—	—
Mattresses,	31	—	31	5	5	26	—	—	26	—
Whip,	1	—	1	—	—	1	—	—	1	—
Pillows,	26	2	28	—	—	28	—	—	26	—
Pillow-cases,	59	—	59	2	2	57	—	—	57	—
Sheets,	53	1	54	—	—	54	—	—	54	—
Stethoscope,	1	—	1	—	—	1	—	—	—	—
Percussor,	1	—	1	—	—	1	—	—	—	—
Tape measure,	1	—	1	—	—	1	—	—	—	—
Urinometer,	1	—	1	1	1	—	—	—	—	—
Test tubes,	6	—	6	6	6	—	—	—	—	—
Reagent bottles,	3	—	3	3	3	—	—	—	—	—
Spoons,	6	—	6	6	6	—	—	—	—	—
Tablets,	22	—	22	1	1	21	—	—	21	—
Tent floors,	5	—	5	—	—	5	—	—	5	—
Tin dippers,	7	—	7	—	—	7	—	—	7	—

Tin basin (wash),	16	-	16	1	15	-	-	15	-
Tin trays,	16	-	16	-	16	-	-	16	-
Towels,	48	-	48	-	41	-	-	41	-
Toilet stands,	16	-	-	-	-	-	-	-	-
Tumblers,	2	-	-	-	2	-	-	2	-
Urinals,	5	-	5	-	5	-	-	5	-
Water pails,	1	-	-	-	1	-	-	1	-
Stretchers (complete),	13	-	13	-	13	-	12	1	-
Haversacks (canvas),	31	-	31	-	15	-	15	-	-
Haversacks (leather),	-	-	25	-	25	-	25	-	-
Saddle bags,	-	-	2	-	2	-	2	-	-
Knives,	29	-	29	-	18	-	18	-	-
Scissors, pairs,	32	-	32	-	23	-	23	-	-
Tourniquets,	11	-	11	-	11	-	11	-	-
Bandage roller,	2	-	2	-	2	-	2	-	-
Models, anatomical (arms),	14	-	14	-	14	-	14	-	-
Models, anatomical (arms, half),	2	-	2	-	2	-	2	-	-
Models, anatomical (legs),	7	-	7	-	7	-	7	-	-
Pulp pails (with covers),	3	-	3	-	3	-	3	-	-
Tents (hospital),	5	-	5	-	5	-	5	-	-
Tent flies (hospital),	5	-	5	-	5	-	5	-	-
Flags (hospital),	1	-	1	-	1	-	1	-	-
Flags, white (red cross),	5	-	5	-	5	-	5	-	-
Window curtains,	6	-	6	-	6	-	6	-	-
Kit covers,	23	-	24	-	24	-	23	-	-
Garbage pails,	5	-	5	-	5	-	5	-	-
Quart measures,	1	-	1	-	1	-	1	-	-
Surgeons' orderly pouches,	14	-	16	-	16	-	16	-	-
Horse sling,	-	-	1	-	1	-	1	-	-
Gun slings (strong),	-	-	4	-	4	-	4	-	-
Bottle moulds,	-	-	7	-	7	-	7	-	-

REPORTS OF CHIEF MEDICAL OFFICERS.

22 NEWBURY STREET, BOSTON, MASS., OCT. 23, 1893.

Brig. Gen. THOMAS KITTREDGE, *Surgeon General of Massachusetts.*

SIR:— Enclosed you will find the reports of the medical officers of the First, Second and Sixth Regiments of Infantry, First Brigade, M. V. M.

Very respectfully, your obedient servant,

H. L. BURRELL,
Lieutenant Colonel and Medical Director, First Brigade, M. V. M.

HEADQUARTERS SECOND REGIMENT INFANTRY,
FIRST BRIGADE, M. V. M.,
SPRINGFIELD, MASS., SEPT. 27, 1893.

Gen. THOMAS KITTREDGE, *Surgeon General, M. V. M.*

SIR:— I have the honor to submit the medical report of the Second Regiment's field day at Northampton, September 21.

Fortunately, our professional services were not required in a single instance, and no mishap to any of the officers or men of our command is known to have occurred. The men did their work well, judging from our stand-point, and we neither saw nor heard of any instance of unsoldierly conduct.

The field was an ideal one for our use, and most happily selected, in a large undulating meadow, on the banks of the Connecticut River, with the beautiful Mount Tom and Mount Holyoke near at hand.

The day, with its results, was as near perfect as anything of the kind could well be, and I am sure will be remembered by all who were there as one of the pleasantest and most profitable field days ever experienced by this regiment.

I am your most obedient servant,

DAVID CLARK,
Surgeon, Second Regiment, M. V. M.

HEADQUARTERS FIRST REGIMENT INFANTRY,
FIRST BRIGADE, M. V. M.,
SOUTH ARMORY, BOSTON, Oct. 13, 1893.

Lieut. Col. H. L. BURRELL, *Medical Director, First Brigade.*

SIR:—I have the honor of making the following report of the tour of duty of the First Regiment, M. V. M., performed Oct. 9, 1893, at Taunton, Mass. The regiment embarked from Boston at 8.15 A.M., Old Colony Railroad; disembarked at Taunton at 9.30; at once went to work for a sham battle. During the engagement only one man injured, on the face, by the discharge of a rifle at too close range; slight flesh wound. The rations were abundant and excellent and served in the best manner. During the parade through Taunton six men fell out from fatigue or slight indisposition; they were cared for by the hospital department and transported in ambulance, which followed the regiment, to the station. The return to Boston was without accident or mishap. Weather conditions perfect.

Very truly, your obedient servant,

OTIS H. MARION,
Surgeon.

FITCHBURG, Oct. 16, 1893.

Lieut. Col. H. L. BURRELL, *Medical Director, First Brigade, M. V. M.*

SIR:—I have the honor of reporting to you in relation to the medical department of the Sixth Regiment Infantry, M. V. M., while in this city Oct. 11, 1893, on its fall tour of duty.

The medical staff was fully represented and was ready with ambulance and hospital for any emergency arising. The medical officers made themselves useful to the colonel of the regiment by assisting him in carrying out his idea of a sham fight, etc.

The men of the several companies carried their own rations, the city furnishing plenty of hot coffee.

The day was perfect in every respect and the men did their duty cheerfully.

Respectfully, your obedient servant,

CHARLES H. RICE,
Surgeon.

HEADQUARTERS FIRST CORPS CADETS, M. V. M.,
BOSTON, July 17, 1893.

Brig. Gen. THOMAS KITTREDGE, *Surgeon General, Massachusetts.*

GENERAL:—I have the honor to submit the following report of the medical department of the First Corps of Cadets during the

encampment at Hingham, from the 8th to the 15th of July, inclusive.

The weather during the week was all that could be desired. The few showers which fell during Wednesday afternoon and night, while interfering with the inspection and dress-parade, were greatly needed, the ground of the camp being very dry. The meteorological observations, a record of which is enclosed, were taken by Assistant Surgeon Charles M. Green. The maximum daily temperature did not rise above 92°, while the mean average of the thermometer for the week was 69.87°, a much lower average than has prevailed of late years.

The health of the command was excellent. The hospital was not used during the week. The change made by the commanding officer in having the examinations of the guard so conducted as to interfere as little as possible with the rest required by the men detailed for guard duty was of great advantage to the general health of the men.

At the north-east corner of the camp an enclosure thirty feet square has been made by the erection of a fence, in which the receptacles for garbage have been placed. In this enclosure the wood and coal for cooking purposes are also kept.

The alterations made in the old medicine chest have proved satisfactory. The new supply table is a great improvement on the old, both as regards the character and form of the drugs supplied. The new field operating case is also admirably adapted to fulfil all the requirements of aseptic surgery and contains everything which would be needed.

A daily morning sanitary inspection of the camp was made, in company with the officer of the day. The dietary for the day was examined. The food was, as usual, simple in character and well cooked.

Since the last camp a change has been made in the officers connected with the medical department. The term of enlistment of the hospital steward, Dr. Thomas F. Sherman, expired June 22 of this year. Owing to ill health he did not re-enlist and Dr. Augustus S. Knight was appointed as his successor. Dr. Sherman had served as hospital steward for nine years, and the faithfulness, punctuality and thoroughness shown in the discharge of all his duties, combined with his genial manner and kindly courtesy, has made his loss as a member of the non-commissioned staff one felt by both the officers and men of the command.

I have the honor to be, very respectfully, your obedient servant,

WILLIAM L. RICHARDSON,
Surgeon.

Meteorological Record for Encampment of First Corps of Cadets, M. V. M., ending July 15, 1893.

DATES OF OBSERVATION.	Time of Observa- tion.	Barometer.	Therm.		Corrected Barom- eter.	HYGRO.		WIND.		CLOUDS.				RAIN.			Maximum and Minimum Therm.	MEAN AV.		Remarks.		
			Exposed.	Attached.		Wet Bulb Thermo'm'r.	Relative Humidity.	Direction.	Force.	UPPER.		LOWER.		Commenced.	Ended.	Amount of, in inches.		Thermom'r.	Barometer.			
										Kind.	Amount.	Kind.	Amount.									
Saturday, July 8, 1893,	9 P.M.	29.74	70	-	-	66	78	S. W.	5	-	Str.	10	-	8.10 P.M. 9.00 P.M.	8	9.50 P.M.	†	-	90	-	-	Cloudy.
Sunday, July 9, 1893,	7 A.M.	29.76	76	-	-	70	70	N. W.	2	Chr.	8	Cum. Str.	2	-	-	-	-	-	66	-	-	Fair.
	2 P.M.	29.81	80	-	-	72	40	N. E.	1	Chr. Cum.	3	Cum. Str.	5	-	-	-	-	-	-	75.25	29.80	Fair.
	9 P.M.	29.83	68	-	-	65	83	E. N. E.	3	Chr. Cum.	3	Str.	5	-	9.30 P.M.	-	†	-	92	-	-	Fair.
Monday, July 10, 1893,	7 A.M.	29.95	67	-	-	59	61	W. N. W.	2	Chr.	1	Str.	1	-	-	-	-	-	56	-	-	Clear.
	2 P.M.	30.00	79	-	-	64	40	E.	1	Cum. Chr.	5	-	-	-	-	-	-	-	-	68.00	29.99	Fair.
	9 P.M.	30.01	63	-	-	58	72	N. E.	1	-	-	Str.	1	-	-	-	-	-	83	-	-	Clear.
Tuesday, July 11, 1893,	7 A.M.	30.11	68	-	-	62	68	N. W.	2	-	-	Str.	1	-	-	-	-	-	46	-	-	Clear.
	2 P.M.	30.13	67	-	-	66	28	N. W.	2	-	-	Cum. Str.	1	-	-	-	-	-	-	72.25	30.09	Clear.
	9 P.M.	30.07	67	-	-	62	73	W. S. W.	3	-	-	Str.	6	-	-	-	-	-	88	-	-	Fair.
Wednesday, July 12, 1893,	7 A.M.	30.05	71	-	-	62	58	W.	3	Chr. Cum.	6	Str.	2	-	-	-	-	-	55	-	-	Fair.

* Slight dash of rain.

† Too small to measure.

‡ A few drops.

Meteorological Record for Encampment of First Corps of Cadets, M. V. M., ending July 15, 1893 — Concluded.

DATES OF OBSERVATION.	Time of Observa- tion.	Barometer.	THERM.		Corrected Barom- eter.	HYGRO.		WIND.		CLOUDS.				RAIN.			MEAN AV.		Remarks.		
			Exposed.	Attached.		Wet Bulb Thermo'r.	Relative Humidity.	Direction.	Force.	UPPER.		LOWER.		Com- menced.	Ended.	Amount of, in inches.	Thermo- m'r.	Barom- eter.			
										Kind.	Amount.	Kind.	Amount.							Directly moving from.	
Wednesday, July 12, 1893,	2 P.M.	30.01	87	-	-	67	80	W.	3	Clr. Cum.	4	Cum. Str.	2	-	-	-	73.50	29.98	Fair.		
	9 P.M.	29.94	66	-	-	63	83	N. W.	2	-	-	Str.	10	-	*	-	-	-	Cloudy.		
Thursday, July 13, 1893, .	7 A.M.	29.79	67	-	-	65	88	W.	2	Clr. Str.	5	Str.	5	-	†	2.00 A.M.	0.06	-	-	Cloudy.	
	2 P.M.	29.83	72	-	-	65	66	E.	4	Clr. Cum.	4	-	-	-	-	-	65.25	29.85	Fair.		
Friday, July 14, 1893, .	9 P.M.	29.86	61	-	-	58	82	E.	3	-	-	Str.	2	-	-	-	-	-	-	Clear.	
	7 A.M.	29.93	66	-	-	59	64	E. N. E.	3	Clr.	1	Str.	1	-	-	-	-	-	-	Clear.	
Saturday, July 15, 1893, .	2 P.M.	29.96	78	-	-	63	42	E.	3	Clr. Str.	2	-	-	-	-	-	66.00	29.95	-	Clear.	
	9 P.M.	29.95	60	-	-	55	72	S. W.	2	-	-	Str.	1	-	-	-	-	-	-	Clear.	
	7 A.M.	29.96	69	-	-	61	61	S. S. W.	4	Clr. Str.	4	Str.	3	-	-	-	-	-	-	-	Fair.

* 4.45 P. M. to 6.30 P. M. Several slight showers during the evening.

† Frequent sharp showers in the night.

CHARLES M. GREEN,
First Lieutenant and Assistant Surgeon, Observer.

HEADQUARTERS SECOND BRIGADE, M. V. M.,
BOSTON, Sept. 1, 1893.

Brig. Gen. THOMAS KITTREDGE, *Surgeon General, Massachusetts.*

SIR:—I have the honor to submit to you the following report of the medical department of the Second Brigade, M. V. M., for the encampment at South Framingham, July 16 to 22, inclusive.

I herewith forward meteorological record of this encampment. There was quite a delay in getting the instruments. Two new thermometers were furnished this year, which materially added to our supply of instruments, and yet they are not complete. It is very important that we should have an anemometer and a rain-gauge. With the addition of these two instruments a full and correct daily report could be had. In this connection I would recommend that the officers of the Signal Corps be specially instructed in the use of these instruments and in making up their daily reports.

The weather, although quite hot the first of the week, was very favorable to military work. There were no cases of sunstroke reported, notwithstanding the thermometer on Tuesday registered 93° at 9.30 A.M. and 100° at 1 o'clock P.M. The relative humidity being light, with a south-west breeze, the men were enabled to drill with less discomfort than with a lower thermometer and a more dense humidity.

The refreshing shower of Tuesday evening cooled the air and moistened the ground, so that little or no inconvenience was felt from dust or heat for the remainder of the week.

Maj. Charles W. Galloupe, surgeon of the Eighth Regiment Infantry, in his report says:—

The shower of Tuesday evening emphasized a point of which complaint has often been made. The violence of the shower prevented the soaking in of the water, and the tents of the guards and some of the musicians were quickly afloat, the water being in places nearly knee deep.

He would recommend that such hollows in the field as would serve to retain the water be brought up to grade. He also reports the cases requiring hospital residence for a longer or shorter time to be as follows:—

A case of acute hæmorrhoids; two cases of colic; one case of convulsions; and two of ivy or dogwood poisoning. No surgical cases of importance occurred.

He also says : —

The medicine chest with its new outfit is a vast improvement on previous medical stores, although some liquid articles were missed, notably hamamelis and tinct. cinchonæ comp. An allowance of two ounces of vaseline for seven hundred men for six days seems homœopathic when we consider the number of chafes and excoriations that need treatment. A number of small oiled-paper boxes should be supplied for dispensing ointments.

He says : —

I would advise, as part of the hospital equipment, a small portable earth-closet for the use of patients afflicted with diarrhœa, as at present, however ill they may be, they must travel some five hundred feet to reach the sinks; and as a further necessity, a light screen of canvas to surround the bed, as the tent is necessarily exposed to the public gaze.

He also —

Recommends that cotton or duck trousers be provided for the men, and the medical officers be authorized to wear a working suit of white duck while on hospital duty. A woollen suit begrimed with dust and perspiration does not comport well with our beautiful new aseptic instruments.

Maj. William H. Devine, surgeon Ninth Regiment Infantry, M. V. M., says in his report : —

It is almost needless to say the camp was well policed; the cook-houses, stables, etc., approached near perfection as regards cleanliness.

The caterer's tent, including ice-chest and food supply, was carefully inspected every day, and several times the medical officers were called to examine bad food which had been placed on the table.

There were but few minor ailments, such as diarrhœa, indigestion, etc., and it seems to me there is a very noticeable decrease in this respect every year. This is partly due to the pure water supply, the more regular inspection of food by medical officers and the fact that the enlisted man is getting to better understand how to care for himself while at camp.

On Tuesday a private of Company D was taken sick with slight attack of hæmoptysis. He was immediately placed in regimental hospital and sent home next day by my recommendation.

The new operating case was received; it will prove useful if the militia should be called into active service. Although rather cumbersome to carry on ordinary occasions, it is well to accustom one to what he should need on special occasions.

A few important articles were overlooked in fitting up the medicine chest, such as iodoform or some substitute. A supply of bottles for liniments, with appropriate labels, should accompany the medical supply.

When liniment tablets are dissolved in a cup or other vessel and left standing around the soldiers' tent they might become an element of danger.

Maj. Charles C. Foster, surgeon Fifth Regiment Infantry, says in his report :—

The weather, except on Tuesday, was perfect, the health of the command excellent, and the week an uneventful one; no cases of severe illness or accidents occurred.

He also says :—

I recommended the discharge of four men, on account of varicose veins, ingrowing toe-nail, hydrocele and asthma.

This year being a dry one, the need of a sewer was less felt than usual, but it exists, as well as the need of bins for wood and coal, and new swill barrels.

The new medicine chests, orderly pouches and operating cases are much better than anything we have ever had before, and seem ample for our present needs.

In the field we should need some simple apparatus for baking dressings, and boiling wash water and instruments over an open fire.

He suggests for this :—

A tin Yankee baker and a tin pail with trays fitting into it would be all that would be necessary.

In accordance with Special Order No. 38, A. G. O., Maj. John F. Harvey, surgeon First Battalion Light Artillery, reported to Captain Follett, commanding Battery A, July 17, 1893. He says in his report :—

The battery, instead of marching over the highway, as in former years, went to South Framingham by cars. No accident of any kind occurred during the loading of the guns and horses. The men arrived in camp with good health. No sickness of any account occurred during the week and but one accident, that being of minor importance.

Up to date no report has been received by me from the medical officers of the First Battalion Cavalry.

I am, sir, your obedient servant,

FREEMAN C. HERSEY,
Medical Director, Second Brigade, M. V. M.

Meteorological Record for Encampment of Second Brigade, M. V. M., ending July 22, 1893.

DATES OF OBSERVATION.	Time of Observation.	Barometer.	THERMOMETER.		Corrected Barometer.	HYGROMETER.		WIND.	
			Exposed.	Attached.		Wet Bulb Thermom't.	Relative Humidity.	Direction.	Force.
Tuesday, July 18, 1893,	2.45 P.M.	29.72	94°	92°	29.70	85°	92	S. W.	4
	6.30 P.M.	29.80	78°	77°	29.79	74°	78	S. E.	3
Wednesday, July 19, 1893,	6.30 A.M.	29.90	74°	73°	29.89	69°	73	N. E.	2
	1.15 P.M.	29.86	90°	88°	29.86	79°	86	N. W.	3
	6.30 P.M.	29.90	78°	76°	29.89	70°	77	S. W.	2
Thursday, July 20, 1893,	6.30 A.M.	30.08	70°	68°	30.07	61°	64	S. W.	1
	1.15 P.M.	30.04	89°	82°	30.02	80°	80	S. W.	3
	6.30 P.M.	30.02	74°	73°	30.01	66°	78	S. W.	2
Friday, July 21, 1893,	6.30 A.M.	29.94	68°	67°	29.92	60°	70	S. W.	3
	1.15 P.M.	29.80	87°	86°	29.79	78°	88	S. W.	5
	6.30 P.M.	29.80	70°	68°	29.79	61°	79	S. W.	3
Saturday, July 22, 1893,	6.30 A.M.	29.90	71°	70°	29.89	62°	76	S. W.	2
	1.15 P.M.	29.89	80°	78°	29.88	71°	79	S. W.	3

Meteorological Record for Encampment of Second Brigade, M. V. M., ending July 22, 1893 — Concluded.

DATES OF OBSERVATION.	CLOUDS.				RAIN.			Maximum and Minimum Therm.		MEAN AV.		Remarks.
	UPPER.		LOWER.		Commenced.	Ended.	Amount of, in inches.	Maximum Therm.	Minimum Therm.	Thermom'r.	Barometer.	
	Kind.	Amount.	Kind.	Amount.								
Tuesday, July 18, 1893, .	Very light.	Varying.	Dark.	Increase.	W.	6.30 P.M.	7.30 P.M.	-	-	-	-	Smart shower with heavy thunders and sharp lightning from 6 P.M. until 7.30 P.M. Have no rain gauge; therefore unable to get amount in inches.
Wednesday, July 19, 1893,	Light flurry.	Varying.	Light.	Very few.	N. W.	-	-	-	-	-	-	Clear and fine weather.
Thursday, July 20, 1893, .	Light gray.	Stationary.	Varying.	Rather more.	N. W. to S. W.	-	-	-	-	-	-	Clear and a beautiful day.
Friday, July 21, 1893, .	Very light.	Hardly any sun.	Light.	Few.	S. W.	-	-	-	-	-	-	Clear and good air.
Saturday, July 22, 1893, .	Gray.	More sun.	Mixed.	Plentiful.	S. W.	-	-	-	-	-	-	Fair.
								100°	70°	86°	29.70	
								91°	-	-	-	
								72°	84°	29.87		
								89°	-	-	-	
								70°	81°	30.05		
								87°	-	-	-	
								70°	79°	29.87		
								80°	-	-	-	
								-	80°	-	-	

HEADQUARTERS, SECOND CORPS CADETS, M. V. M.,
SALEM, MASS., Aug. 14, 1893.

Brig. Gen. THOMAS KITTREDGE, *Surgeon General, Massachusetts.*

I have the honor to submit the following report of the medical department during camp at Essex August 7 to 12, inclusive.

A camping party had on the 6th pitched the larger portion of the tents, so that on our arrival Monday morning only the hospital tent and a few others were left to get in position. As the weather looked threatening, these were pitched and bedding and other hospital furniture were got under cover in readiness for use if needed. We had rain on Monday, but the rest of the week was clear, and on Thursday we experienced one of the hottest days of summer.

The health of camp was unusually good, and although very hot no cases of heat-stroke resulted. Camp this year was remarkably free from gastric and diarrhoeal disturbances. Only one case is deserving of mention in this report and that was a case of lacerated wound of the back of the neck, caused by the accidental discharge of a rifle loaded with blank cartridge, occurring during skirmish drill. Considerable powder was blown into the tissues. Recovery was prompt and no ill effects resulted.

The water supply in camp this year was much better than in former years, owing to the well near the cook-house being driven much deeper.

Policing of camp was uniformly good, the grounds being kept in excellent condition except in the vicinity of the cook-house, where there could have been an improvement. The condition of the sinks this year was an improvement over former years.

In closing I wish to thank all who in various ways assisted the officers of the medical department in the discharge of their duties.

Very respectfully, your obedient servant,

BENJ. R. SYMONDS,
Surgeon, Second Corps Cadets, M. V. M.

HEADQUARTERS FIRST CORPS CADETS, M. V. M.,
BOSTON, Aug. 12, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General of Massachusetts.*

GENERAL : — I have the honor to report that, in accordance with Special Order No. 93, I visited Essex August 9 and inspected the

sanitary condition of the camp of the Second Corps of Cadets and the medical department of that command.

The general sanitary condition of the camp was good, and the medical department was as carefully looked after by the medical officers as was possible, considering the fact that the Corps have the use of the grounds only during the camp week and are therefore unable to make such preparations for a camp as would be possible if the grounds were the property either of the State or the Corps.

I am, very respectfully, your obedient servant,

WILLIAM L. RICHARDSON,
Surgeon, First Corps Cadets, M. V. M.

HEADQUARTERS NAVAL BRIGADE, M. V. M.,
SOUTH ARMORY, BOSTON, July 31, 1893.

Brig. Gen. THOMAS KITTREDGE, *Surgeon General, Massachusetts.*

SIR : — I have the honor to submit the following medical report upon the tour of duty recently performed by the Naval Brigade, M. V. M.

Though ordered for duty for only one day, five days were practically given to this tour, the medical surveillance extending, however, over only four full days, viz., from 12 m., Tuesday, July 18, to 12 m., Saturday, July 22.

The practice here pursued being something unique in the training of volunteer militia, I will, with your permission, make the report cover the days of actual service.

In accordance with General Order No. 16, Headquarters Naval Brigade, July 15, the Brigade assembled at the South Armory, Irvington Street, Boston, at 12 m. on Tuesday, July 18, and at 1.30 P.M. took up the line of march for the Charlestown Navy Yard. The men wore the full dress uniform, carried packed knapsack, blankets, peacoat and haversack containing tin plate, knife, fork and spoon, but no arms or belts.

Owing to limited accommodations there finally embarked on the U. S. S. "San Francisco," Capt. J. C. Soley, eleven officers and one hundred and fifty-three men and petty officers, and upon the U. S. S. "Miantonomoh," seven officers and fifty-three petty officers and men, making a total of nineteen officers and two hundred and six petty officers and men.

I had the pleasure of serving on board the "San Francisco"

while Lieutenant (Junior Grade) G. W. Allen, assistant surgeon First Battalion, served in his capacity on board the "Miantonomoh." Each of us was provided with an "orderly pouch" and medicine chest, both of the State pattern.

The militiamen were expected in every case to perform the ship's duties except in the engineer's department.

The ship's officers and only a few of the regular crew remained on board as instructors.

Immediately on embarking the ships put to sea, steaming at a slow rate of speed straight out during the night and returning over practically the same course during the day. This manœuvre was repeated daily. The "Miantonomoh," however, was at anchor during Friday night.

The weather was all that could be desired, a smooth sea, a warm sun and a cool breeze making a perfect combination. Showers on Tuesday evening interfered somewhat with the drills.

While it has been repeatedly and conclusively demonstrated that a sailor can live and do his work well on the sea ration allowed him by the government, it is but seldom nowadays that he is compelled to subsist long on such diet exclusively.

By a system of commutation, money is paid the various vessels instead of rations given them, and by each of the mess further contributing a sum from his pay, a cook, one of the men, is hired and "soft" food bought when in port. But few men of the brigade understood this, and those who brought anything only brought a few canned goods; hence for most of the time they were served the Navy ration only, such extras as the few regular crew had along, and willingly shared, being speedily eaten up. Many of the regular mess cooks also having been left behind, the men of the brigade suffered somewhat from poor cooking.

The rations were the best of their kind, and in order to insure enough one extra ration to every four men was served out on the second day and thereafter.

The water was of the best quality, being distilled sea water, tested each day for impurities, excess of chlorides, and when such excess, beyond a trace, was found the tank was emptied and a fresh lot run in.

The men slept in hammocks without mattresses, pillows or sheets, having only their own blankets.

The washing accommodations were ample, the morning wash on deck in such weather being a luxury.

The latrines were ample and were kept in good order.

The sick-bay on the "San Francisco" was large and airy, the sick in hospital being accommodated in hammocks, swinging cots

or mattresses on deck. Fortunately no one of the brigade was sick enough to use the hospital beds.

I made each morning a separate report of the sick and excused from duty in the brigade to Captain Soley, which was forwarded to Captain Watson of the "San Francisco," it passing also through the hands of the ship's surgeon. The officer of the deck also had a list of the "excused from duty," the men so excused and not sick enough to be in hospital being designated by a number on the left arm.

Sick call was at 8.30 A.M. At any other time the man reported at the sick-bay and a messenger was sent for the surgeon.

I respectfully recommend that the medicine chests be fitted with a shallow tray of hard rubber or marbled iron to fit in the lower drawer of the chest. The articles in the drawer would go into the tray, and the tray itself is needed to hold instruments in case of an operation, there being nothing of the kind at hand now.

I acknowledge the receipt by mail of two pocket cases of instruments.

I have, according to your instructions, returned the three medicine cases to Melvin & Badger.

I transmit herewith the report of Lieutenant (Junior Grade) G. W. Allen, assistant surgeon First Battalion, who was on the "Miantonomoh."

From a medical stand-point the men of the brigade stood the strain of the hard work that they were called upon to do exceedingly well. The attendance at sick call, as is shown in the consolidated sick report, was small and entirely for minor complaints, though several weaklings dropped out and had to be excused. The health of the sixty officers and men on the "Miantonomoh" was practically perfect.

I have the honor to be, very respectfully,

Your obedient servant,

H. M. CUTTS,

Lieutenant and Surgeon, Naval Brigade, M. V. M.

JAMAICA PLAIN, July 28, 1893.

Brig. Gen. THOMAS KITTREDGE, *Surgeon General, M. V. M.*

SIR :—I believe it has been customary for me to write a report to you after the camp each year since I have had the pleasure of being connected with the First Battalion of Cavalry, M. V. M.

I report to the Adjutant General all casualties and fatalities in

case of any claim being made against the State, but I believe I have also reported to you in a general way on the health of the animals and improvements that might be made. The new instrument case I like very well, but think it would be an addition if it contained a trocar and canula, such as is used for puncturing the horse's colon in case of flatulent colic. Another addition to the supply of instruments that suggests itself to me is two catheters, a male and female; there might be occasions when they would be very useful. There may be other improvements that Dr. Osgood may think of in his report, but I do not happen to think of anything else in the instrument line just now.

It would be a great convenience to have a medicine chest at our headquarters, with perhaps fewer and larger bottles than there are in the new medical chests, as with the supply up at Framingham it is impossible for one to know what is missing or what is wanted before he goes there.

Two improvements suggested in my report to you last year still remain to be made; they are the ventilation in the peak of the stables, to run the whole length, and better watering facilities at the regimental staff stables.

As to the health of the horses during the camp, there were the usual sore backs and colic cases, but no instances of being overcome by heat this year. In addition to the usual work, however, there were a number of cases of influenza among the battery horses, they having been green ones hired at a Boston sale stable. One of them had pleurisy and pneumonia and died Sunday night at the camp grounds, she having been too sick to remove Saturday morning. Another horse acted as though he were just coming down with pneumonia the morning that camp was broken. Another was taken with purpura hæmorrhagia about the middle of the week, he evidently being just over an attack of strangles when the purpura appeared. With all this sickness among the battery horses, it seems to me that it might be a good plan to disinfect the stables in some way before another camp is held there. A coat of whitewash would very likely be sufficient, considering how long it will be before the stables are used again.

I noticed after the shower of the 18th that the water poured into the battery stable nearest the cavalry stables, and that a ditch had to be shovelled through the front of a stall on the west side before the water ran off, leaving the stable damp for some time afterward.

I have also to renew the criticism that I have made each year upon feeding the horses. Each stable should have a supply of bran, and there should be less oats and more bran fed. If each horse had a bran mash or two early in the week I believe it would

lessen the danger from colic. There are two or three cases of this every camp.

I have spoken of the matter of better saddle cloths for the cavalry horses in my report to the Adjutant General. If the cloths were larger, thicker and of better quality, I believe there would be less trouble from sore backs than there is at present.

These are the chief matters of interest that I happen to think of just now in connection with my work at the encampment of the Second Brigade, M. V. M., at Framingham, for 1893.

I am, sir, very respectfully, your obedient servant,

AUSTIN PETERS,

*First Lieutenant and Veterinary Surgeon,
First Battalion of Cavalry, M. V. M.*

REPORT OF THE JUDGE ADVOCATE GENERAL.

JUDGE ADVOCATE GENERAL'S OFFICE,
BOSTON, Dec. 30, 1893.

Major General DALTON, *Adjutant General*.

GENERAL : — I have the honor respectfully to submit my report for the year now closing.

No cases from regimental courts-martial have been submitted to me during the year.

I have been called upon to review and pass upon the proceedings and report upon the findings in one case of general court-martial and one court of inquiry ; to give hearings, by order of the Commander-in-Chief, under the statute, in two cases, and to submit opinions in six cases.

The reports, recommendations, decisions and opinions in these cases have already been submitted.

Very respectfully,

FRANCIS PEABODY, JR.,
Brigadier General and Judge Advocate General.

BOARD OF MILITARY EXAMINERS.

STATE HOUSE, BOSTON, Dec. 30, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General of Massachusetts.*

GENERAL:—I have the honor to submit the following report of the transactions of the Board of Military Examiners for the year ending Dec. 30, 1893.

The Board has held fourteen meetings during the year. The total number of examinations was one hundred and twenty-four. Of these, one hundred and fifteen were approved by the Board upon the first examination, two were conditionally passed to reappear, and upon subsequent examination were approved. One was conditionally passed at the last meeting, to appear again before the Board in February. Six were rejected. Forty-three of the entire number were officers who had previously appeared before the Board for examination for a lower grade.

Respectfully, your obedient servant,

BENJ. F. PEACH, JR.,
Brigadier General, President of Board.

REPORT OF THE INSPECTOR GENERAL OF RIFLE PRACTICE.

COMMONWEALTH OF MASSACHUSETTS,
OFFICE OF INSPECTOR GENERAL OF RIFLE PRACTICE,
BOSTON, November 30, 1893.

Maj. Gen. SAMUEL DALTON,
Adjutant General, Commonwealth of Massachusetts.

SIR: — I have the honor to submit report for the current target year.

ORDERS.

The work of the rifle department was outlined in General Order No. 3, issued February 1, 1893, supplemented with Circular No. 1, bearing on rifle work, and General Order No. 13, bearing on the general State and Distinguished Marksman competitions.

THE DEPARTMENT.

On the rifle department rests the responsibility of the efficiency of the militia in marksmanship. The mere possession of fire-arms does not make troops who can be *relied on* to maintain law and order. However well appointed a volunteer force may be, without fire discipline, they fall short of the duties which become a militia. Organization, equipment, drill, all aim at the one result of making the soldier as efficient as possible. Unless men understand the first principles of shooting, and are grounded by practice in the intelligent use of their weapon of defence and offence, they have no place in the service. Ignorance and carelessness, always reprehensible, become culpable if permitted in the use of fire-arms. The department has sought progressive efficiency. The strength of the force, rather than the prominence of individuals, has dictated the nature of the work undertaken.

ELEMENTARY WORK.

Thorough instruction in aiming drill, simple explanation of the theory of rifle fire, and more general armory practice, with reduced charge, wherever practicable, have been recommended.

AMMUNITION.

The issue, upon requisition, of five hundred rounds of Frankfort ammunition to every headquarters, company and troop, with a further money allowance, made ample provision if judiciously expended, to qualify every officer and man in the service.

QUALIFICATIONS.

Qualifications were the same as in 1892 (G. O. No. 8) :—

Third Class :

2 scores of 15 out of a possible 25, at 200 yards.

Second Class :

2 scores of 18 out of a possible 25, at 200 yards.

First Class :

2 scores of 21 out of a possible 25, at 200 yards.

2 scores of 21 out of a possible 25, at 500 yards.

Sharpshooter Class :

2 scores of 22 out of a possible 25, at 200 yards.

2 scores of 24 out of a possible 25, at 500 yards.

2 scores of 23 out of a possible 25, at 600 yards.

Distinguished Marksman Class :

Sharpshooters of record—

- (1) Who have represented the State at Creedmoor, or
- (2) Who may be mentioned in orders as the First Twelve, or
- (3) Who have won an individual trophy at the State match.

Second-class marksmen armed with the carbine may use the rifle when practicable for ranges beyond 200 yards ; one point will be allowed on each score for qualification made with the carbine at 500 yards and 600 yards.

Position at 200 yards, standing ; at the longer ranges, any position.

SYSTEM.

Thoroughness must be systematic, and the importance of thoroughness has necessitated a system.

(A) Company work was encouraged, with individual practice expected of every man. The seven best shots, based upon actual work done, were to be selected to form a team to represent the company in a regimental competition.

(B) Then the twelve best marksmen developed there, as provided in General Orders, represented their regiment in the State general competition, at 200 yards and 500 yards.

(C) While the twelve highest competitors in this match are mentioned in General Orders as the “ State Team.”

(D) A sharpshooter who subsequently wins an individual

prize in the State general competition, or a place on the State team, or a team duly sanctioned to represent the State (as at Creedmoor), becomes a Distinguished Marksman.

The Distinguished Marksmen compete by themselves.

SUMMARY.

The work of the individual was stimulated by the incentive of a place on the company team. This recognized exceptionally good work by a place for, say, one in nine competitors.

The greater proficiency desirable found field for recognition in the regimental match. The best shooting company, as a company, won the regimental trophy, and the twelve highest shots (with such others as the Inspector of Rifle Practice might designate, under conditions prescribed) constituted the regimental team. Places were therefore made for, say, one in seven contestants.

Finally, the State general competition rewarded the best regimental team, as such, with the tri-color, intrinsically the least valuable, but properly the most coveted honor, while the twelve highest officers or men became the State team. The last test placed, say, one of every eight who entered in the most distinguished group of marksmen of the current target year.

The conscientious recruit, or painstaking soldier, whose faithful rifle work had carried him into the highest (sharpshooter) class, at known-distance individual fire, had the goal of Distinguished Marksman to win in honorable competition. The competition of this Distinguished Marksman class gave the field for real proficiency with the rifle, as it recognized estimating distances, without which marksmanship is still in the elementary, rifle-gallery age.

Particular stress is laid on the development of marksmanship that began with individual work, through the critical test of excitement in competition, up to the work of the individual again, where his ripened competence challenged comparison with the Distinguished Marksmen of the whole force. Good work in the successive stages found the honorable recompense in this practical survival of the fittest.

THE METHOD.

The rifle work of the current target year, outlined in a General Order, left much to the military instinct of every officer commanding men.

INSPECTORS OF RIFLE PRACTICE.

The establishment provides for an Inspector General of Rifle Practice, with a major as Assistant Inspector General of Rifle Practice in each brigade, and an inspector of rifle practice ranking as lieutenant for each regiment, corps, the Naval Brigade and

Cavalry Battalion. The department to whom is entrusted this most essential duty of the soldier of to-day comprises thirteen officers. The vacancy in the Second Brigade has thrown increased responsibility for the work therein on the Inspector General of Rifle Practice.

Provision is made for visits to companies, and there has been hearty accord in the department and in general and earnest effort to discharge with fidelity the responsibility of commission.

At the close of a year of trying work, the Inspector General desires to convey to higher authority his appreciation of the devoted interest of the officers of the department, and his hearty commendation of their effort to further the welfare of the service.

THE DUTY OF INSPECTORS.

With the singular apathy of many officers, much depends on the magnetism and ability of the rifle inspectors. On them the standard of excellence in the organization hinges, together with such preparation as will bring efficiency to the command with whom they have the honor to serve. During the close season there must be watchful care to see that recruits are given preliminary instruction, and the indifferent element in any company aroused to the necessity of improvement. This calls for thought, time and tact. During the season of field work the inspectors must transmit their personality and methods of success to men who, although good enough material, require intelligent coaching. This calls for patience, perseverance, self-sacrifice and many hours of drudgery.

I have the honor to suggest whether the inspectors of rifle practice have not earned the rank of captain. It becomes an embarrassment for a lieutenant to criticise the lax methods found in some companies. If the inspector of rifle practice lives abreast of his duty, he fully deserves the higher rank. The staff work of an inspector of rifle practice is largely independent, and, in my judgment, of such a character as to warrant recognition with the rank of captain.

OF THE STUMBLING BLOCK TO EFFICIENCY.

(1) *In the Man.*

(a) The importance of shooting is not impressed on the recruits. This is a fatal oversight.

(b) It is overlooked in an old soldier, who may help a parade captain by knitting a company together, but who would be utterly useless in time of action.

This tacitly endorses incompetence.

(c) It is no bar to re-enlistment; a man may win a long-service medal from a grateful State, yet never have been in reality an efficient soldier.

This carries its own criticism on the administration.

(2) *In the Company Officers.*

(a) Too often officers make light of the need of aiming drill, and quite ignore shooting.

This is suggestive.

(b) Many a good officer may be a poor shot, but all should realize how worthless a company of men who cannot shoot would be for service.

The realization of this personal shortcoming has brought about most gratifying results where the officer is alive to his duty.

(c) If drill was faultless, discipline perfect, buttons and brasses bright, equipment and uniform smart, there would be solace for the shirking of practice which would bring such a company to commendable standing as soon as attention was directed to a serious shortcoming. The fine appearance of a company is sadly hollow if wholly superficial.

Comment is needless.

(d) Generally the poor shooting companies are the poor everything companies; and the neglect of the most important duty of a commander of men armed with rifles is apt to indicate a like neglect of other duties.

And it usually proves this to the very letter.

(e) If officers only attempt to give their command a veneer where they are conspicuous, they cannot expect to be obeyed when their men get out of their immediate supervision. Thoroughness is best for all concerned — the State, the command — and, in the end, is the simplest and easiest for the company commander.

Until officers realize that poor marksmanship *directly reflects* on their standing as officers, some companies will fail to take the stand the men are capable of attaining.

QUALIFICATIONS.

The qualifications for marksmanship compare favorably with other States, and in the highest grades are proof of greater excellence. The lowest qualification (two 15's out of two possible 25's at 200 yards) is within the capacity of any one fit to draw the State pay as a *soldier*.

The gravity of the existing condition is referred to elsewhere in this report.

REVOLVER WORK.

Early in the year a board was appointed to fully test the several military revolvers and recommend the one best adapted to the service, with such qualifications as they deemed proper for the work of the first year. The new army .38 caliber Colt revolver was authorized.

Two scores of 20 out of a possible 30 (six-shot strings), either at 50 yards on the 200-yard rifle target, or at 30 yards on the 100-yard rifle target, qualified as proficient.

In firing, every chamber of the revolver to be charged, and the six shots discharged before the competitor left the firing point, and within one minute. The full-charge service ammunition—viz., powder charge, 18 grains; weight of bullet, 150 grains—to be used. Trigger pull of not less than six pounds.

The conditions noted in Paragraph III., General Orders No. 3, C. S., governed scores for action.

It would seem to me prudent to arrange for issue of revolvers to officers as rifles are issued the enlisted men. If the expense be too appalling, their issue at a reduced price might be practicable.

The qualifications will require revision, being too easy. The pull will be made lighter, being too heavy. Four pounds would be much preferable.

OF COMPETITIONS.

The principal object of these contests is, by comparison of results, to impress upon all officers the necessity of thorough individual instruction in the organization under their command, the sole means by which our present proficiency in the use of the rifle has been reached.

In some companies work has been carried out with a snap, as shown in the regimental match. The wretched showing of other companies is only too true an index of a disobedience of orders and lack of proper company pride.

OF THE COMPETITIONS OF 1893.

Every preparation that forethought could cover and every lesson that experience had taught were given to insure the smooth running and absolute fairness in the State competitions.

The department has its full reward in the hearty approval of its devoted efforts and the unanimity of the favorable comments on the success of these contests.

The matches were shot over the Massachusetts Rifle Association range at Walnut Hill, an excellent ground, but difficult of access.

There were due arrangements made for those competitors in the Distinguished Marksman match who wished to spend the night following the State general competition on the range.

Fair weather conditions prevailed. The light was trying at times, and the wind tricky, as proverbial.

THE TARGET.

I thought fit to introduce a modification in the target used. Under the old scoring, a shot just out of the bull's-eye counted no more than a far-away inner well on to the magpie ring. This signally failed to accurately record the excellence or comparative wildness of many shots.

In known-distance firing the closeness of the shooting should find recognition. Therefore, an additional ring was laid off on the State competition target, splitting the former 4 ring. While leaving the bull's-eye to count 5, this gave a 4 within the reconstructed nearer circle, with a 3 for the remoter 4's under the old count, the 3 ring scoring 2, the fringe of the target counting 1.

In any estimate made for comparison of the scores in these competitions it must be borne in mind that under the ancient *régime* many more points would have been made. What was earned emphasized accuracy and gave the credit for the most skilful shooting where it belonged.

It speaks well for the good sense, and honest desire for fair play, in the keenest marksmen of the militia, that this rigid method of determining their real standing as shots, found ready acceptance and won universal commendation. The endorsement of general consent, in such an innovation, carries its own argument, for the confirmation and establishment of this new standard in future competitions.

RANGES.

If there be reason for a company in any city or town, common sense prompts an effective body of troops. There must be proper range facilities to insure this. The neglect of many corporations to comply with the statute, and provide such necessary ground for field practice, is as short-sighted as it is unaccountable. The efforts to overcome these obstacles of a misguided economy have passed the danger line in many instances. Firing has been done in a happy-go-lucky way, attended with a carelessness that fortunately has not yet involved loss of life.

STATE RANGES.

In my judgment the State range can be made practically safe for fire at 200 yards under discreet supervision. The rapid build-

ing up of the town of South Framingham has narrowed the danger line about this range. What was prudent, only a few years ago can be secured now only by cutting down the hill back of the targets. A well-devised system of terraces would give a range that should be free from objection, and might be used without much risk, if any.

OF PRECAUTION.

The military rifle is no toy, but a very real weapon. Men must have experience to handle and shoot it properly. Practice is essential.

Safe ranges should be provided, because accidents, deplorable always, inevitably prejudice the community. The very danger emphasizes the sad lesson of the destructiveness of the rifle. To minimize the fearful results of inexperienced men, ordered on duty, radical means must be taken to prepare them with a proper knowledge of the rifle—how to use it effectively, and how to avoid accidents, which would be culpably *criminal*, as they can be guarded against.

FIELD WORK.

It is to be hoped the present custom of field work can be continued. The alternative is, having companies, as companies, ordered out for training and practice fire. This is sure to find some men unable to be present, and there is less chance to spend time on recruits in the desire to qualify as many men as possible.

SCORES.

I have confidence enough in the rank and file to believe scores turned in are so generally correct as to be reliable. Yet there must be some one responsible for the men on any range. All firing should be done with an officer or competent non-commissioned officer present, not alone to instruct recruits, but to see that all rifles are prudently handled. This course will go far to keep men better in hand for action, as it grounds them in fire discipline.

RIFLE SERGEANT.

I have the honor to suggest that with the recognition of the proficiency with the rifle, and the desirability of having some official on the range when firing is done for record, (1) to coach the beginner; (2) to correct the faulty position of the non-marksmen; and further (3) to certify scores and supervise firing to prevent accident; as well as to assist in preparation of reports, that there be added to the non-commissioned staff a rifle sergeant competent to assist the rifle inspector.

There are many capable enlisted men, who can arrange to spend a day or two during the target season in this very important work. The progress secured I believe would fully justify the allowance of the State pay.

PROGRESSIVE WORK.

While firing over well-appointed ranges at known distances makes a man familiar with what his rifle can do under such pacific conditions, attention has been directed to the importance of judging distances, to round out our marksmanship, and develop a skill worth something in the field in actual hostilities. Unless the range be at least approximately known, firing is merely a waste of ammunition and scoring becomes purely a fluke.

DISTINGUISHED MARKSMEN COMPETITION.

The new target (described at length earlier in this report) was used at 200 yards, and the known-distance fire (200 yards, 500 yards, 600 yards) was followed by estimating distance while skirmishing.

The vital necessity of knowing the correct range to intelligently direct fire, first found recognition in the rifle department of this State. The work has been brought along progressively, in 1891 being wholly over relatively level ground, with gentle undulations, — the camp ground at South Framingham. There the competitors were advanced, and at seven halts estimated the distance between them and a detachment about as large in numbers, who were in turn halted during the marking by each competitor of the estimated distance that intervened. The detachments were handled as skirmishers, and distances were estimated standing, kneeling and lying down. Scorers accompanied the contestants and took the score-cards when the competitor had noted his estimate. These cards, after due certification, were turned over to the chief statistical officer, and he reported the results as found.

In 1892 the same general features were followed out, with the introduction of judging distance to a vedette, and also to one point at a slight elevation, out of the camp limits. In 1893, when the value of this faculty in judging distances had been conceded, and the best shots had been advanced through what I consider the first two stages in proficiency, the work became practical.

The first halt was from a wooded lane, and the distance was judged across a field to a stone wall, on ground slightly rising the point of elevation.

The second halt was practically across a level meadow to a tree that would have been likely occupied by an advanced scout in action.

The third halt was on the road, up rising ground to an improvised entrenchment of railroad ties.

The fourth halt was at the junction of four roads, and the constructive opposing force was behind a stone wall. This estimate was based upon the smoke caused by the firing of blank cartridges by the detachment behind the wall, as was the case at first halt.

At the fifth halt the objective detachment advanced from the wall, over a field, and concealed themselves in skirmish line, lying down behind a fold of the ground. They were exceedingly well handled by Lieutenant Clarke, and while visible for the purposes of judging the distance, most excellent use was made of the natural cover. This gave an excellent object lesson.

The fourth, fifth and sixth halts were made about the same cross-roads, and the sixth distance was judged down a well-wooded and long road which finally dipped; — the appearance of a detachment of artillery coming into action was feigned.

The seventh and last halt was made coming down a slight elevation, across meadows, water and farmhouses, to where two roads met, and where the constructive enemy opened a vigorous fire.

I have the honor to call your attention to precisely what this work was: judging the distance to open fire with accuracy upon the vantage point an enemy would seek to occupy. It was much more difficult than the two previous years, it was just the experience every captain should have, because a reasonable familiarity of judging distances is distinctly laid down as the duty of the company officers, "Drill Regulations," pars. 91, 92.

The results are worth close analysis. Many competitors scored a hit at every halt. Many went hopelessly to pieces. These competitors are the very best shots in our force; many of them have been years in the service, and are of national standing at known distances.

The scoring established for this distance stage of the competition, took into account the tendency to overestimate a distance, and the uselessness of a shot over the target.

In picking up an unknown range, a shot too low is a much better guide, because if well planted the dirt thrown locates the impact of bullet. As Distinguished Marksmen are real living range-finders, I have sought to develop this knack systematically, and therefore gave three times as much credit for a distance underestimated as to a distance judged beyond the object designated.

The Distinguished Marksman competition was finished in less than five hours' time, and there were no casualties.

TROPHIES AND MEDALS.

The State has recognized qualifications by appropriate medals, with individual prizes in the several classes of marksmanship and trophies for the winning company team. The tri-color is borne by the regiment whose team makes the highest aggregate score at the State general competition.

RECORDS.

Appended to this report will be found (a) list of marksmen, which states their record of highest qualification while in the State service, with range work the current year; (b) qualifications made with the revolver; (c) tables showing the present standing of the several organizations; and (d) of the companies in such organizations, with their comparative excellence in marksmanship, and (e) record of the various competitions.

OBSERVATIONS.

The department is face to face with the imperative need of increased efficiency, greater thoroughness and more intelligent mastery of the first principles of marksmanship. The wretched showing in some regimental competitions of company teams chosen under Par. IX. of G. O. No. 3 sounds an alarm.

When the poor companies in several regiments outshoot the best companies in other regiments, the time has come for taking stock of our system. That under that system excellent results have been secured in many commands, while others are disgracefully deficient, *places responsibility beyond the department.*

As long as efficiency and inefficiency are rewarded alike, there is direct discouragement to the conscientious volunteer, and direct encouragement to slipshod unsoldierly failure to discharge a bounden duty.

I protest against the longer continuance of this injustice to the *morale* of the militia. In the present state of shooting some companies have no ground for longer continuance in service as troops.

The annual appropriation is no sop to the superficial military spirit in this Commonwealth. What is intended is the creation of a body of thoughtful citizen-soldiers, who realize first their responsibility of citizenship, and from a sense of duty, are ready to fit themselves to be competent to maintain justice and order, to suppress lawless violence, and insure public safety within the State.

The surest way to return the recruit well seasoned into a better citizen is a high standard of discipline. It becomes essential to build a *force* upon the solid foundation of efficiency. At present,

if certain companies were called out for actual service, they would be worthless for the sole cause of their existence and a positive source of danger.

It is true that without practice no man is fit to be trusted with a rifle. Much, however, can be done in the armory, and the neglect of this preliminary work, within reach of every company commander, is an outrage on the cloth. It is also true that there is need of range practice, and work in the field, where the service charge can be fired, and the first principles, learned by aiming drill, perfected.

The proper way to fire and minimize the effects of the recoil must be mastered by practice to make useful soldiers out of volunteers. It is true that this takes time, and that some commands do labor under serious drawbacks from the want of convenient ranges. It is also true that under these very adverse circumstances many companies faithfully practise and show admirable results. It is clear that the time has come when the lines must be relaxed or drawn firmly. Either rifle practice must be abandoned, and the militia sink into such grave disrepute, as will justify its decided reduction to the strength required for street parades and civic shows, or enlistment must carry with it subsequent duties and due attention to what constitutes a *force*.

The appropriation for ammunition provides the equivalent of some 3,500 rounds a company; this means fifty shots for each officer and man. It is enough to simply qualify every one entitled to State pay as a soldier.

The law now provides for suitable range facilities wherever companies are in service. The city of Boston responded generously for their contingent of the militia, and the results carry their own conclusions. Unless a recruit can spare time to go to the range once a year, the *personal expenditure of a half day*, he has no place in the ranks of the militia. Do not call him by the honorable title of volunteer.

STATE PAY.

I am convinced that the conscientious volunteer, who perfects himself for duty, deserves every recognition by the State he cheerfully serves. If it were practicable to compensate efficiency by an allowance beyond the present pay, such would win my hearty endorsement. I must repeat again officially that in my best judgment it does not seem that flagrant inefficiency should receive a like return, or that this course will tend to build the force up on the solid foundation of real strength, with *esprit de corps*, so desirable in the volunteer system.

RECOMMENDATIONS.

In view of the gravity of the situation, to stimulate improvement, and yet to give ample time for delinquent commands to work up to the requisite standard, I have the honor to recommend that every company with less than thirty marksmen on the rolls October 31, 1894, be disbanded, as having failed to warrant longer existence in the active militia, who draw State pay.

I have the honor to recommend further for your consideration (1) that such action be taken as may compel cities and towns to furnish the range facilities provided by statute, which has become imperative with some local authorities; (2) as the appropriation of the State funds for the maintenance of a militia is presumably to secure a force capable of efficient work if called into service, that the expenditure of such appropriation be made to better secure the efficiency desired.

In furtherance of this recommendation, I have the honor to suggest that where range facilities exist, to save the needless expense on men utterly worthless for service (as more liable to do harm to the innocent than effectively maintain law and order on an emergency), (a) no company be ordered to camp in 1894 which does not have at least 50 per cent. of its enrolled strength marksmen; (b) that no man should be enlisted (the exceptions but proving the rule) who cannot shoot; (c) that the allowance of pay, at the present rate of \$2 per diem, for 1894 be expended —

1. On marksmen of record, \$2 per diem.
2. On men who have shot, but failed to qualify, \$1.50 per diem.
3. On men who have done no shooting, \$1 per diem.

The last (3) class, ignorant, uninstructed and incompetent soldiers, would be a source of positive danger if called out for action.

On what grounds can the present blanket rate of pay be justified? Higher authority should be looked to for encouragement in efforts for higher standard of excellence. This department pleads again for such support and such consideration for its recommendations as their importance should insure.

I would suggest that the saving from inefficients in the service (and non-marksmen form this non-efficient class) be divided among the several organizations, in proportion to their number of marksmen who have made qualifying scores in the target season of 1894.

The direct results of these recommendations, if adopted, would be to make it an object to qualify men for the greater pay for efficiency. Thus there would be more work done and efficiency

would be raised, while the non-shooting men, who are distinctly out of place in a shooting organization, would be eliminated, to the further increase in efficiency, as they are better out of the ranks than in them.

With the progress secured in individual work, no company should fall below the very moderate standard of 50 per cent. of marksmen. If any company should be found so thoroughly weak for any real service as such a discreditable showing would prove, it would prompt special inspection, with the strong probability of disbandment, and it would be a needless waste of the State appropriation to expend rising \$1,000 to send it to camp. Hence company work would be stimulated.

The division of the saving in pay of the non-efficients among the efficients would recognize their discharge of duty, and be an additional incentive to greater excellence. Incidentally, it would tend to more care in recruiting, which would be a direct benefit.

I cannot report a satisfactory condition of the militia as an armed force, to be relied upon to maintain law and order, *from their mere possession of arms.*

Captains of companies are responsible for the proficiency of their men. The *personnel* of the officer is such that, when the importance is once realized, improvement can be worked out, and marksmanship given the place it deserves. The trouble harks back to the conception of a company strong merely in numbers, regardless of a watered vitality.

The militia of to-day, certainly in Massachusetts, are anxious to become efficient. It has been significant that on many Fall Field Days fire was well in hand. Few men fired without aiming, a commendable advance in fire discipline. Much ammunition was not used in the manœuvres, which showed admirable economy, and that the men realized the practical nature of their work in action. Many officers of high rank and great influence have shown a thoroughly soldierly interest in this important essential to an efficient command.

The time is ripe for progress. As long as no step is taken to endorse what has been done, the inevitable outcome must be discouragement. The wisdom of withholding emphatic recognition of good work is beyond my comprehension. The theory of a military system instinct with efficiency surely prompts the elimination of inefficiency.

I feel a natural diffidence in submitting recommendations again and again, and perhaps that they fail to command your consideration should command my silence.

I sincerely hope the appropriation for the rifle department may

be increased. If there is any reason for a militia, there is absolute need in having it efficient. The present allowance of \$10,000 for the most important function of a force armed with firearms seems inadequate in proportion to the whole appropriation of \$215,000. The work is hampered, and, if the principle be once accepted that efficiency is right in demanding more recognition than chronic inefficiency, the standard of the force will quickly be raised nearer where it should stand to-day. Then, if a fair appropriation be set aside toward broadening rifle practice, there will be two powerful features at work to leaven the force.

I have the honor to call your attention to the tables accompanying this report, as showing what the department has done under the adverse conditions now maintaining.

I am, sir, very respectfully, your obedient servant,

WILLIAM L. CHASE, *Colonel,*
Inspector General of Rifle Practice.

RECORD OF MARKSMEN, M. V. M.

CLASSIFICATIONS AND ABBREVIATIONS.

DISTINGUISHED MARKSMAN CLASS (D. M.).

Sharpshooters of record, who have represented the State at Creedmoor, who may be mentioned in orders as the first twelve, or who have won an individual trophy at the State match.

SHARPSHOOTER CLASS (S. S.).

2 Scores of 22 out of a possible 25, at 200 yards.

2 " of 24 " " 25, " 600 "

2 " of 23 " " 25, " 600 "

FIRST-CLASS MARKSMAN (1st CLASS).

2 Scores of 21 out of a possible 25, at 200 yards.

2 " of 21 " " 25, " 600 "

SECOND-CLASS MARKSMAN (2d CLASS).

2 Scores of 18 out of a possible 25, at 200 yards.

THIRD-CLASS MARKSMAN (3d CLASS).

2 Scores of 15 out of a possible 25, at 200 yards.

Requal. signifies that a marksman has qualified in a class lower than highest previously attained. Those whose names are in *italics* have failed to qualify in 1893.

COMMANDER-IN-CHIEF AND STAFF.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Gov. W. E. Russell.		2d Class,	Requal.	<i>Col. Henry E Russell</i>	3d Class,	-	
<i>Brig. Gen. Francis</i>				" <i>James H. Car-</i>			
<i>Peabody, Jr.</i>		3d do.	-	<i>michael</i>	2d do.	-	
<i>Brig. Gen. Thomas</i>				" Spencer Borden	2d do.	19, 20	
<i>Kittredge</i>		2d do.	-	" <i>D. H. Vincent</i>	3d do.	-	
Col. Wm. L. Chase,				" John E. Thayer	2d do.	18, 18	
I. G. R. P.	D. M.,	Requal.		" Percy Parker	2d do.	18, 20	
<i>Col. Geo. A. Keeler</i>		2d Class,	-	" John H. Cun-			
" <i>H. D. Andrews</i>		2d do.	-	<i>ningham</i>	2d do.	Requal.	
" <i>Fred. G. King</i>		1st do.	-	" Horace B. Verry	3d do.	15, 15	
" James L. Carter		2d do.	21, 21				

FIELD AND STAFF, FIRST BRIGADE.

<i>Brig. Gen. B. F.</i>				<i>Capt. T. F. Cordis</i>	1st Class,	-	
<i>Bridges, Jr.</i>				" <i>C. D. Lyford</i>	S. S.,	-	
Lt. Col. B. S. Parker	1st do.	Requal.		" <i>J. H. Lathrop</i>	1st Class,	-	
Lt. Col. H. L. Burrill	1st do.			<i>Sgt. M. W. Bull</i>	D. M.,	-	
Maj. F. H. Briggs	1st do.	42, 42		" <i>G. E. Fenn</i>	S. S.,	-	
Maj. C. W. Hinman	D. M.,	49, 50, 47		" <i>C. F. Crosby</i>	1st Class,	-	
<i>Capt. C. L. Hayden</i>	1st Class,			" E B. Welles	2d do.	19, 20	
" <i>C. E. Bridges</i>	1st do.			" W. S. Pepperell	2d do.	20, 20	
" <i>H. S. Dewey</i>	1st do.						

SIGNAL CORPS, FIRST BRIGADE.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Sgt. W. N. Tolman .	D. M.,		47,48,48	Priv. Herman W. Hill	2d Class,	Requal.	
Priv. W. S. Ripley,				" J. Lester Hill .	2d do.	-	
Jr. .	S. S.,		47,48,48	" S. H. Hopson .	2c do.	18, 18	
Priv. A. E. Cooper .	1st Class,		42, 48	Lt. J. A. Hunneman	2d do.	18, 18	
Sgt. C. A. Evans, Jr.	1st do.		45, 44	Priv. J. E. McKenzie	2d do.	18, 21	
Sgt. John A. Alden .	2d do.		18, 18	" W. E. Merrill .	2d do.	18, 19	
Priv. A. D. Bagley .	2d do.	Requal.		" H. B. Weston .	2d do.	18, 19	
Priv. Chas. J. Beebe	2d do.	-		" G. H. Edwards	3d do.	-	
Sgt. C. C. Davidson	2d do.	19, 20		" W. W. Higgins	3d do.	-	
Priv. C. H. Gerrold .	2d do.	18, 20		" G. M. Staples .	3d do.	-	
Priv. Orrin Greene .	2d do.	19, 21					

AMBULANCE CORPS, FIRST BRIGADE.

Priv. John Stiles .	1st Class,	44, 42	Corp'l Benj. W. Clem-			
Sgt. W. J. G. Myers	2d do.	22, 21	ents . . .	3d Class,	15, 17	
Priv. A. G. McCurdy	2d do.	-				

FIELD AND STAFF, FIRST REGIMENT INFANTRY.

Col. T. R. Mathews .	1st Class,	-	P. M. Sgt. George R.			
Lt. Col. C. L. Hovey	2d do.	-	Russell .	D. M.,	50, 50, 48	
Maj. R. H. Morgan .	S. S.,	-	Col. Sgt. F. W. Peirce	D. M.,	Requal.	
" P. A. Dyar .	S. S.,	Requal.	Sgt. Maj. F. P. Web-			
" Chas. Pfaff .	3d Class,	-	ster .	S. S.,	Requal.	
Lt. James A. Frye .	D. M.,	Requal.	" H. L. Smith .	1st Class,	Requal.	
" C. B. Woodman .	1st Class,	Requal.	" E. E. Chapman	1st do.	Requal.	
" Geo. F. Hall .	S. S.,	49, 48, 46	Chaplain M. J. Sav-			
" H. B. Parker .	2d Class,	18, 19	age .	3d do.	18, 19	
" H. S. Dearing .	2d do.	Requal.	Mus. A. L. Berry .	2d do.	19, 20	
Maj. O. H. Marion .	S. S.,	44, 48, 46	Mus. H. H. Newhall	-	19, 19	

COMPANY A, FIRST REGIMENT INFANTRY.

Capt. J. P. Nowell .	S. S.,	44, 50, 48	Sgt. G. W. Dunbar .	3d Class,	15, 16	
Lt. Sumner Paine .	S. S.,	49, 50, 19	Corp'l W. Kammler .	3d do.	15, 17	
Sgt. Wm. Claupein .	S. S.,	17, 49, 46	Priv. J. M. Ahern .	3d do.	15, 16	
Sgt. H. C. Bamberg .	1st Class,	41, 42	" G. W. Andrews .	3d do.	17, 15	
Corp'l A. B. Watts .	1st do.	43, 42	" W. E. Cook .	3d do.	15, 17	
Priv. C. P. Chainey .	1st do.	42, 44	" M. J. Coughlin .	3d do.	15, 13	
" J. W. Clary .	1st do.	43, 47	" J. W. Edmands	3d do.	17, 18	
" A. W. Hicks .	1st do.	47, 46	" A. F. Gross .	3d do.	15, 17	
" Earle Chainey .	1st do.	44, 47	" E. W. Hall .	3d do.	17, 18	
Sgt. J. E. Littlefield	2d do.	21, 21	" N. E. Hatfield .	3d do.	16, 1	
Sgt. Henry Stern .	2d do.	18, 19	" W. P. Knibbs .	3d do.	15, 1	
Corp'l Dorrety .	2d do.	19, 19	" J. D. R. McLeod	3d do.	16, 18	
" G. H. Russell .	2d do.	18, 20	" J. A. McNulty	3d do.	16, 17	
" C. W. Smith .	2d do.	21, 21	" M. E. Riceout .	3d do.	16, 17	
" Daniel Sullivan	2d do.	18, 19	" C. D. Riley .	3d do.	17, 17	
Priv. G. P. Field .	2d do.	18, 19	" W. G. Ruisseau	3d do.	15, 19	
" Daniel Flynn .	2d do.	18, 19	" J. B. Von Eau	3d do.	15, 15	
" F. H. Leonard .	2d do.	18, 18	" F. H. Wadman	3d do.	16, 17	
" Frank Murphy .	2d do.	19, 20	" G. A. Wiechman	3d do.	15, 16	
" Wm. Purcell .	2d do.	18, 19	" J. McLean .	3d do.	-	

COMPANY B, FIRST INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Corp'l	John W. Blake	D. M.,	47, 49, 48	Priv.	G. M. Jackson	2d Class,	18, 18
Capt.	W. E. Lombard	S. S.,	48, 50, 47	"	C. W. James	2d do.	18, 19
Lt.	John E. Day	S. S.,	46, 48, 46	"	B. R. Jones	2d do.	20, 21
Lt.	M. Underwood	S. S.,	46, 49, 47	"	James Kater	2d do.	18, 20
Sgt.	A. F. Woodside	S. S.,	46, 48, 47	"	H. W. Kelley	2d do.	20, 20
"	Wm. T. McNeill	S. S.,	45, 48, 46	"	Chas. F. Lewis	2d do.	20, 20
"	Geo. P. Cooley	S. S.,	48, 50, 46	"	Amos McArthur	2d do.	20, 21
"	Geo. W. Cole	S. S.,	47, 49, 46	"	Wm McArthur	2d do.	18, 20
Corp'l	C. A. Dawson	S. S.,	50, 48, 48	"	Otto Meadka	2d do.	20, 21
Sgt.	Cutler L. Vose	1st Class,	42, 45	"	J. T. Mellsope	2d do.	18, 18
Sgt.	C. P. Cox, Jr.	1st do.	43, 43	"	J. K. Moore	2d do.	19, 20
Corp'l	Caleb West	1st do.	43, 42	"	G. C. Murch	2d do.	19, 19
"	Percy H. Prior	1st do.	46, 45	"	A. R. Newton	2d do.	18, 18
"	T. W. Peters	1st do.	45, 46	"	H. A. Penniman	2d do.	20, 21
"	J. H. Beaumont	1st do.	44, 45	"	W. A. Reynolds	2d do.	19, 21
Priv.	Ernest W. Hunt	1st do.	42, 42	"	C. H. B. Stacy	2d do.	18, 18
"	J. D. Ireland	1st do.	43, 43	"	J. A. Stevenson	2d do.	18, 20
"	F. McArthur	1st do.	43, 42	"	W. A. White	2d do.	19, 20
"	John W. Clary	1st do.	43, 48	"	E. F. Wilkins	2d do.	19, 20
"	C. G. Lincoln	1st do.	Requal.	"	C. A. Williams	2d do.	19, 20
Bugler	C. A. Wilton	2d do.	18, 19	"	C. G. Young	2d do.	18, 18
Priv.	Thomas Arnold	2d do.	18, 21	"	M. A. Mac-		
"	W. H. Arnold	2d do.	20, 20	Swainel	2d do.	20, 20	
"	John W. Bailey	2d do.	18, 18	"	Fred E. Berry	3d do.	16, 17
"	Geo. C. Baker	2d do.	19, 20	"	Wen. W. Board-		
"	S. P. Batchelder	2d do.	20, 20	man	3d do.	15, 16	
"	James Brazier	2d do.	18, 18	"	L. E. Boyden	3d do.	17, 17
"	W. G. Campbell	2d do.	20, 22	"	John Cheyne	3d do.	15, 16
"	C. P. Cox, Sr.	2d do.	18, 20	"	C. D. Fisher	3d do.	15, 18
"	Henry S. Dunn	2d do.	18, 20	"	John F. Friend	3d do.	17, 17
"	Walter S. Dyer	2d do.	20, 21	"	C. W. Hartwell	3d do.	16, 16
"	F. L. Golding	2d do.	19, 20	"	A. M. Jones	3d do.	16, 17
"	C. E. Gordon	2d do.	21, 21	"	W. T. Knight	3d do.	15, 16
"	Paul Harting	2d do.	22, 24	"	T. C. McArthur	3d do.	17, 19
"	E. E. Heinlein	2d do.	19, 19	"	Henry F. Moore	3d do.	15, 15
"	O. P. Higgins	2d do.	18, 20	"	Geo. W. Moore	3d do.	16, 17
"	W. H. Higgins	2d do.	19, 20	"	D. H. Murray	3d do.	16, 17
"	C. M. Jackson	2d do.	19, 19	"	F. E. Parry	3d do.	17, 17
"	G. E. Jackson	2d do.	18, 18	"	Jas. L. Tyler	3d do.	16, 17

COMPANY C, FIRST REGIMENT INFANTRY.

Capt.	H. W. Atkins	1st Class,	23, 25	Priv.	H. K. Blackmer	3d Class,	17, 16
Lt.	C. F. Mostrom	S. S.,	Requal.	"	W. F. Buttry	3d do.	15, 16
Lt.	C. P. Nutter	S. S.,	47, 49, 48	"	L. A. Cook	3d do.	15, 16
Corp'l	C. H. Richwood	S. S.,	Requal.	"	H. J. Elliott	3d do.	17, 17
Sgt.	G. H. Gunther	1st Class,	Requal.	"	R. Forbush	3d do.	15, 15
Sgt.	A. T. Tonrose	1st do.	42, 46	"	E. F. Grundy	3d do.	15, 16
Corp'l	C. E. French	1st do.	42, 42	"	A. A. Graevell	3d do.	16, 17
Priv.	H. L. Smith	1st do.	42, 42	"	G. A. Hagerty	3d do.	15, 17
Mus.	H. S. Libby	1st do.	-	"	J. H. Helmond	3d do.	15, 15
Sgt.	A. E. Hall	2d do.	20, 20	"	E. Manning	3d do.	15, 17
Sgt.	A. G. Hill	2d do.	22, 22	"	W. J. McCaffery	3d do.	15, 15
Corp'l	A. Gustafson	2d do.	20, 20	"	J. E. Nelson	3d do.	17, 19
"	G. Carlson	2d do.	18, 18	"	F. M. Redpath	3d do.	16, 16
"	H. Ives	2d do.	18, 18	"	F. Razoux	3d do.	16, 19
"	C. Hegerick	2d do.	18, 19	"	G. P. Sennott	3d do.	15, 20
Priv.	W. C. Ecker	2d do.	19, 21	"	F. Tusedale	3d do.	15, 19
"	H. T. Larrabee	2d do.	18, 18	"	J. J. Talbot	3d do.	17, 17
"	C. W. Pierce	2d do.	21, 19	"	F. Visnet	3d do.	15, 17
"	H. S. Steele	2d do.	18, 20	"	G. A. Penney	3d do.	-
"	G. H. Trombly	2d do.	-				

COMPANY D, FIRST REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
1st Sgt.	Louis E. Lutz	S. S.,	43, 49, 46	Priv.	J. J. Blakie	3d Class,	16, 15
Sgt.	Wm. M. Corey	1st Class,	47, 47	"	C. J. Connell	3d do.	15, 15
Sgt.	E. A. Stephens	1st do.	42, 43	"	D. V. Connell	3d do.	18, 18
Priv.	W. H. Packard	1st do.	Requal.	"	H. W. Deering	3d do.	18, 17
Capt.	J. H. Frothingham	2d do.	18, 18	"	W. H. Ellinger	3d do.	18, 16
Lt.	James W. Dana	2d do.	18, 21	"	F. H. Fielding	3d do.	16, 15
Sgt.	E. C. Bradbury	2d do.	21, 19	"	R. J. Hamilton	3d do.	19, 17
Corp'l	Chas. E. Little	2d do.	19, 19	"	Carl Held	3d do.	17, 16
"	W. J. McCullough	2d do.	19, 18	"	A. T. Hobart	3d do.	16, 16
"	C. H. Roberts, Jr.	2d do.	19, 18	"	Wm. G. Joy	3d do.	15, 15
"	L. A. Young	2d do.	18, 18	"	A. S. Kennedy	3d do.	15, 15
Bugler	William H. Eldridge	2d do.	21, 18	"	Oscar C. Lenk	3d do.	16, 15
Priv.	Geo. B. Chadbourne	2d do.	19, 18	"	R. D. Magrath	3d do.	16, 16
"	David H. Fogg	2d do.	19, 21	"	A. F. Marcyes	3d do.	16, 16
"	A. A. Hanson	2d do.	19, 18	"	W. E. McGraw	3d do.	16, 15
"	Chas. F. Lewis	2d do.	20, 20	"	W. E. McLean	3d do.	16, 15
"	A. L. McCullough	2d do.	19, 18	"	G. E. Murphie	3d do.	17, 15
"	O. P. Sanderson	2d do.	20, 19	"	I. E. Pearson	3d do.	19, 17
"	C. H. Stockemer	2d do.	19, 18	"	C. O. Peirce	3d do.	18, 17
"	F. G. J. Wilson	2d do.	18, 18	"	W. H. Potter	3d do.	18, 15
"	Albert Cutler	2d do.	-	"	H. L. Ward	3d do.	16, 15
"	C. A. Smith	2d do.	-	"	T. E. Yates	3d do.	16, 15
Sgt.	N. P. Cormack	3d do.	18, 17	Lt.	J. S. Keenan	3d do.	-
Corp'l	Geo. M. Wood	3d do.	15, 15	Priv.	A. W. Butterworth	3d do.	-
Corp'l	J. J. Anderson	3d do.	17, 16	"	C. J. Crawford	3d do.	-
				"	W. E. Conant	3d do.	-
				"	E. T. Hand	3d do.	-
				"	F. J. Keefe	3d do.	-
				"	G. E. Richardson	3d do.	-
				"	J. P. Sampson	3d do.	-

COMPANY E, FIRST REGIMENT INFANTRY.

Corp'l	Joseph L. Gibbs	D. M.,	48, 50, 49	Sgt.	H. C. Churchill	2d Class,	19, 19
Sgt.	E. E. Baudion	D. M.,	48, 50, 47	Corp'l	J. F. Rogers	2d do.	21, 21
Capt.	A. E. Perry	S. S.,	Requal.	Corp'l	H. Hathaway, Jr.	2d do.	18, 18
Lt.	A. P. Pope	S. S.,	44, 48, 47	Priv.	G. H. Baylies	2d do.	18, 19
Sgt.	A. T. Howland	S. S.,	44, 48, 47	"	R. H. Bennett	2d do.	18, 18
"	H. S. Swaine	S. S.,	45, 48, 46	"	W. A. Burt	2d do.	18, 22
"	G. H. Devoll	S. S.,	44, 48, 47	"	H. N. Brownell	2d do.	18, 19
Corp'l	E. M. Slocum	S. S.,	47, 50, 47	"	W. A. Clark	2d do.	18, 18
"	C. H. Fuller	S. S.,	45, 48, 47	"	J. L. Crowley	2d do.	19, 22
"	W. E. James	S. S.,	44, 48, 47	"	C. Dewhurst	2d do.	16, 19
Priv.	C. E. Gelette	S. S.,	46, 50, 47	"	J. L. Duffy	2d do.	18, 19
"	Robert Hall	S. S.,	46, 48, 47	"	H. C. Ellis	2d do.	18, 20
"	E. T. Clark	S. S.,	Requal.	"	I. J. B. Folsom	2d do.	21, 22
"	E. L. Soule	S. S.,	Requal.	"	A. B. Gifford	2d do.	18, 21
"	Sam. Whitehead	S. S.,	Requal.	"	W. D. Hathaway	2d do.	18, 19
Corp'l	C. E. Anthony	1st Class	43, 44	"	C. H. James	2d do.	19, 20
Bug.	D. J. Price	1st do.	43, 42	"	G. C. Kingsley	2d do.	18, 18
Priv.	S. R. Clark	1st do.	42, 49	"	C. A. Maxfield	2d do.	19, 19
"	A. E. Duffy	1st do.	42, 43	"	R. T. Matthews	2d do.	18, 18
"	J. H. Davis	1st do.	Requal.	"	A. R. Morse, Jr.	2d do.	21, 22
"	J. F. Goggin	1st do.	Requal.	"	H. S. Mosher	2d do.	19, 19
"	E. L. Bryant	1st do.	Requal.	"	J. W. Murray	2d do.	18, 20
"	J. P. Kennedy	1st do.	Requal.	"	H. N. Peck	2d do.	20, 23
"	C. B. Robbins	1st do.	Requal.	"	C. O. Pierce	2d do.	19, 22
"	T. A. Hadfield	1st do.	Requal.	"	W. L. Peters	2d do.	21, 22
Lt.	T. S. Hathaway	2d do.	18, 21				

COMPANY E, FIRST REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv.	R. F. Reid	2d Class,	19, 20	Priv.	J. B. Jones	3d Class,	15, 16
"	Wm. Simister	2d do.	17, 18	"	E. B. Jennings	3d do.	15, 17
"	J. C. Spooner,	2d do.	18, 20	"	H. F. McCon-		
"	W. C. Stowell.	2d do.	18, 19	"	ville	3d do.	17, 18
"	Thos. Tripp	2d do.	19, 20	"	F. B. Hathaway	3d do.	16, 16
"	W. G. Wood	2d do.	21, 22	"	A. Millor	3d do.	16, 19
"	S. F. Aiken	3d do.	15, 15	"	S. R. Spencer	3d do.	17, 18
"	W. H. Craig	3d do.	16, 20	"	R. Wilkinson	3d do.	15, 17
"	J. P. Denison	3d do.	16, 16	"	L. A. Vierick	3d do.	16, 16
"	H. C. Ellis	3d do.	15, 15	"	N. H. Tripp	3d do.	15, 15
"	J. A. Ferns	3d do.	17, 17				

COMPANY F, FIRST REGIMENT INFANTRY.

Priv.	S. J. Fowler	S. S.,	Requal.	Priv.	A. W. Warbur-		
Sgt.	John T. Barker	S. S.,	47, 48, 46	ton		2d Class,	18, 18
Priv.	Harry Carlow	1st Class,	43, 43	"	A. A. Whipple	2d do.	20, 23
Sgt.	G. W. Delhanty	1st do.	43, 42	"	H. M. Living-		
Priv.	Patrick Devers	1st do.	42, 43	stone		2d do.	18, 19
Sgt.	H. J. Rounseville	1st do.	44, 43	"	Joseph Dexter	2d do.	-
Priv.	H. W. Roby	1st do.	43, 42	"	J. J. Dugan	2d do.	-
Sgt.	Fred A. Shaw	1st do.	43, 45	"	C. E. Caswell	3d do.	15, 17
Sgt.	James E. Totten	1st do.	43, 43	"	Jas. B. Ervin	3d do.	15, 18
Corp'l	S. P. Totten	1st do.	42, 45	"	E. A. Court	3d do.	18, 16
Priv.	Albert Clare	1st do.	Requal.	"	A. K. Crowell	3d do.	15, 17
"	H. N. Blandin	2d do.	18, 19	"	W. W. Gifford	3d do.	16, 17
"	Wm. H. Chase	2d do.	19, 20	Corp'l	George Grigor	3d do.	16, 17
"	Willie Clark	2d do.	18, 19	Priv.	T. P. Hartigan	3d do.	17, 17
Capt.	N. O. Danforth	2d do.	22, 21	"	F. E. W. Howe	3d do.	17, 17
Priv.	J. G. DeCoff	2d do.	21, 21	"	J. W. Jenkins	3d do.	15, 16
"	C. W. Leven-			"	S. T. Madison	3d do.	15, 17
saler		2d do.	18, 18	"	P. A. McCabe	3d do.	15, 16
"	A. L. Lucas	2d do.	20, 19	Lt.	F. H. Phillips	3d do.	15, 16
"	J. MacFarlane	2d do.	18, 18	Priv.	H. A. Pierce	3d do.	17, 21
Lt.	Wm. J. Meek	2d do.	22, 23	Bugler	I. L. Robinson	3d do.	18, 15
Priv.	D. McKunion	2d do.	18, 21	Priv.	G. T. Seekell	3d do.	16, 16
"	J. McKenna	2d do.	18, 18	"	J. A. Welch	3d do.	17, 15
"	F. J. McManus	2d do.	18, 18	"	E. A. Atwood	3d do.	-
"	Allen J. Morse	2d do.	18, 20	"	Frederic Court	3d do.	-
Corp'l	I. H. Pidgion	2d do.	20, 20	"	C. A. L. Holland	3d do.	-
Priv.	A. Robertson	2d do.	20, 19	"	Charles Ives	3d do.	-
"	T. S. Shledow	2d do.	18, 19	"	R. M. Strange	3d do.	-
"	R. S. Smith	2d do.	18, 18				

COMPANY G, FIRST REGIMENT INFANTRY.

Priv.	J. G. Vennell	1st Class,	42, 47	Priv.	F. G. Chapman	3d Class,	15, 15
Mus.	W. H. Barrett	2d do.	18, 19	"	M. F. Curley	3d do.	16, 17
Sgt.	W. H. Clark	2d do.	19, 20	"	W. O. Cusbing	3d do.	15, 17
"	W. J. Earle	2d do.	19, 19	"	H. F. Fillebrown	3d do.	15, 17
"	W. J. Mudge	2d do.	18, 19	"	W. A. Gardner	3d do.	15, 17
"	W. H. Tighe	2d do.	19, 20	"	M. P. Geary	3d do.	15, 17
Lt.	J. A. Verge	2d do.	18, 19	"	J. L. Kelley	3d do.	15, 15
Corp'l	R. E. Bauch	3d do.	16, 17	"	L. P. Mott	3d do.	16, 16
Corp'l	T. H. Burton	3d do.	17, 18	Corp'l	W. E. Morse	3d do.	16, 16
Priv.	C. H. Brown	3d do.	15, 17	Priv.	C. F. Morrell	3d do.	15, 16
"	J. S. Beaton	3d do.	15, 15	"	D. J. S. McCur-		
"	J. J. Bennett	3d do.	15, 17	dy		3d do.	15, 16
"	W. F. Bixby	3d do.	15, 16	"	W. J. McIntosh	3d do.	17, 17

COMPANY G, FIRST REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. Isaac Pierce		3d Class,	15, 18	Priv. G. A. Weeden		3d Class,	16, 17
Corp'l A. W. Stewart		3d do.	15, 15	" L. S. Wood		3d do.	17, 17
Priv. W. O. Smart		3d do.	15, 15	Sgt. J. P. Willey		3d do.	15, 19
" C. F. Smith		3d do.	17, 19	Lt. Geo J. Vickery		3d do.	-
" W. H. Walker		3d do.	15, 15	Priv. P. T. Foley		3d do.	-

COMPANY H, FIRST REGIMENT INFANTRY.

Capt. C. M. Flanders	1st Class,	Requal.	Priv. T. H. Bayley	2d Class,	-
Corp'l W. R. Bennett	1st do.	Requal.	Priv. T. P. Kelley	2d do.	-
Priv. D. J. McGilvray	1st do.	Requal.	Corp'l E. W. Wheadon	3d do.	15, 16
Priv. F. McDonald	1st do.	42, 44	Priv. K. Bray	3d do.	15, 19
Lt. J. R. Smith	2d do.	19, 19	" M. Gibbs	3d do.	17, 17
Sgt. B. E. Grant	2d do.	18, 18	" S. E. Haraden	3d do.	16, 15
Sgt. W. Renfew	2d do.	20, 20	" H. T. Smith	3d do.	17, 17
Corp'l C. R. Apter	2d do.	21, 22	" J. G. H. McGil-		
Mus. F. D. Dixon	2d do.	16, 16	" vray	3d do.	17, 22
Priv. J. W. Angus	2d do.	18, 18	" W. H. Nickerson	3d do.	17, 17
" E. G. Farrell	2d do.	19, 20	" W. L. Pratt	3d do.	-
" H. S. Flint	2d do.	18, 20	Sgt. W. L. Meek	3d do.	-
" J. A. McIsaac	2d do.	18, 20	Corp'l B. M. Whitten	3d do.	-
" G. M. R. Lund	2d do.	20, 20	Priv. G. W. Butler	3d do.	-
" C. C. Stanchfield	2d do.	21, 22	" J. A. Chisholm	3d do.	-
" C. G. Taylor	2d do.	19, 19	" F. J. Taylor	3d do.	-
Corp'l G. A. Sands	2d do.	-			

COMPANY I, FIRST REGIMENT INFANTRY.

Capt. C. Williamson	D. M.,	Requal.	Priv. E. J. Morse	2d Class,	21, 20
Lt. Geo. E. Horton	S. S.,	Requal.	" W. J. Marshall	2d do.	21, 20
Sgt. E. Frank Pope	S. S.,	48, 48, 48	" Geo. P. Presby	2d do.	18, 22
Lt. H. G. Winsor	S. S.,	Requal.	" W. H. Parks	2d do.	21, 22
Priv. L. L. Winsor	S. S.,	44, 48, 46	" H. S. Parker	2d do.	18, 22
Sgt. W. S. Allen	1st Class,	42, 42	" H. S. Reed	2d do.	18, 18
Priv. Geo. E. Bolling	1st do.	45, 44	" W. H. Stubbs	2d do.	18, 15
Sgt. C. E. Clark	1st do.	43, 49	" C. F. Winsor	2d do.	20, 20
Sgt. F. M. Cole	1st do.	44, 44	" J. P. Whitney	2d do.	18, 18
Corp'l M. S. Higgins	1st do.	Requal.	" Geo. R. Wass	2d do.	20, 21
Priv. W. L. Joslyn	1st do.	44, 43	" C. B. Williams	2d do.	18, 19
Priv. E. W. Lund-			" F. A. Andrews	3d do.	17, 18
strom	1st do.	42, 44	" F. E. Braley	3d do.	16, 18
Sgt. Chas. Rowley	1st do.	42, 44	" E. W. Bearse	3d do.	15, 16
Priv. R. J. Turncliffe	1st do.	42, 43	" E. N. Billington	3d do.	16, 15
Corp'l Herbert Allen	2d do.	19, 19	" H. H. Butler	3d do.	17, 15
Priv. Geo. A. Aber-			" C. R. Clark	3d do.	18, 17
crombie	2d do.	21, 19	" J. Davis	3d do.	17, 16
Priv. Fred C. Alger	2d do.	18, 18	" A. A. Goss	3d do.	16, 16
Corp'l C. R. Baker	2d do.	20, 18	" R. H. Holway	3d do.	15, 15
Corp'l S. W. Billington	2d do.	18, 19	" F. A. Horton	3d do.	16, 16
Priv. Geo. B. Burgess	2d do.	18, 19	" Robt. Mack	3d do.	15, 16
" A. A. Belcher	2d do.	19, 19	" F. B. Maxwell	3d do.	16, 18
" Nathan Chase	2d do.	18, 21	" F. L. Porter	3d do.	16, 16
Corp'l J. A. Coffin	2d do.	18, 19	" W. H. Perry	3d do.	15, 16
Priv. H. H. Clayton	2d do.	18, 18	" Aug. Reyott	3d do.	15, 15
" W. H. Delano	2d do.	18, 19	" S. B. Sampson	3d do.	15, 18
" F. M. Davis	2d do.	18, 18	" Con. Seaberg	3d do.	16, 16
" W. F. Elliott	2d do.	21, 20	Corp. E. L. Stone	3d do.	16, 15
" H. T. McClintick	2d do.	22, 20	Priv. E. B. Winslow	3d do.	16, 18

COMPANY K, FIRST REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Capt. G. F. Quinby	S. S.,		44, 50, 50	Priv. F. L. Ready	3d Class,		16, 17
Sgt. C. A. Strangman	S. S.,		-	" I. J. Davis	3d do.		16, 19
Sgt. W. J. Rogers	1st Class,		42, 44	Lt. H. L. Chapman	2d do.		-
Corp'l J. T. Fabian	1st do.		-	Sgt. C. A. Monks	2d do.		-
Corp'l S. A. McAvoy	1st do.		44, 44	Sgt. E. P. Tucker	2d do.		-
Lt. Fred. S. Howes	2d do.		19, 19	Corp'l A. W. Joslin	2d do.		-
Corp'l W. J. Hally	2d do.		20, 20	Corp'l H. R. Noyes	2d do.		-
Priv. R. A. Finley	2d do.		19, 20	Sgt. E. C. Freeman	2d do.		-
" G. H. Webber	2d do.		21, 22	" B. F. Merrill	2d do.		-
" W. C. Atton	2d do.		-	" H. Levenberg	3d do.		-
Sgt. H. W. LeFavor	3d do.		15, 16	Priv. H. M. Condon	3d do.		-
Priv. C. F. Adams	3d do.		15, 15	" J. E. Pierce	3d do.		-
" W. H. Dowd	3d do.		17, 18	" H. N. Acery	3d do.		-
" R. Foster	3d do.		15, 16	" D. R. Shedd	3d do.		-

COMPANY L, FIRST REGIMENT INFANTRY.

Sgt. W. D. Huddleson	D. M.,		49, 50, 47	Corp'l J. B. Gerrold	3d Class,		16, 17
Lt. C. H. Lake	S. S.,		-	Priv. W. E. Ennis	3d do.		17, 17
Sgt. H. L. White	S. S.,		44, 48, 47	" L. A. Blanchard	3d do.		15, 16
Corp'l D. V. Reeves	1st Class,		42, 43	" G. R. J. Henry	3d do.		15, 16
Priv. F. R. Brown	1st do.		43, 44	" J. D. Oatt	3d do.		15, 17
Priv. E. M. Willis	1st do.		43, 42	" D. C. Crowley	3d do.		16, 16
Sgt. H. C. Fox	2d do.		Requal.	" G. S. Magill	3d do.		17, 18
Sgt. W. R. Graves	2d do.		19, 19	" L. Bamforth	3d do.		16, 18
Corp'l C. J. Peterson	2d do.		18, 18	Capt. F. M. Whiting	3d do.		-
Corp'l H. R. Grohs	2d do.		18, 18	Sgt. J. L. Jones	3d do.		-
Priv. E. H. Hartman	2d do.		18, 18	Priv. H. A. Barnes	3d do.		-
" H. H. Newhall	2d do.		19, 19	" W. A. Clark	3d do.		-
" E. B. Wood	2d do.		19, 18	" M. H. Dalton	3d do.		-
" T. Kroh	2d do.		18, 20	" F. P. Dugan	3d do.		-
" L. Browman	2d do.		19, 18	" T. H. Hurley	3d do.		-
" A. C. Reinhardt	2d do.		19, 18	" T. J. Leary	3d do.		-
" W. A. Wheeler	2d do.		18, 18	" J. F. McLean	3d do.		-
" C. A. Pettingill	2d do.		18, 19	" W. J. McLean	3d do.		-
" A. W. Ferry	2d do.		18, 20	" A. McAuley	3d do.		-
" H. D. McIntyre	2d do.		18, 18	" L. W. B. F. Salvi	3d do.		-
Corp'l J. C. Barrett	3d do.		17, 17				

COMPANY M, FIRST REGIMENT INFANTRY.

Lt. David Fuller	S. S.,		Requal.	Sgt. A. B. Sandford	2d Class,		Requal.
Lt. Walt. F. Borden	S. S.,		44, 48, 47	Corp'l Wm. W. Booth	2d do.		22, 23
Sgt. G. Hollins	S. S.,		46, 48, 46	Priv. Ernest Bridge	2d do.		21, 19
Sgt. F. W. Harrison	S. S.,		Requal.	" J. H. Bentley	2d do.		18, 18
Corp'l John W. Horan	S. S.,		46, 48, 47	" A. Cockcroft	2d do.		20, 21
Corp'l R. H. Booth	S. S.,		44, 48, 47	" Henry Cross	2d do.		19, 19
Sgt. Edwin G. Darol	1st Class,		-	" A. Graham	2d do.		18, 18
" Wm. H. Kelley	1st do.		Requal.	" J. R. Graham	2d do.		18, 20
" Geo. E. Potter	1st do.		42, 43	" Paul Harrison	2d do.		22, 22
Corp'l Jas. H. Horan	1st do.		43, 46	" James H. Holt	2d do.		18, 18
" J. F. McAdams	1st do.		43, 42	" Wm. J. Hyde	2d do.		20, 22
" Frank S. Abbott	1st do.		42, 42	" Lewis E. Rolfe	2d do.		19, 19
Priv. Edward H. Pilkington	1st do.		42, 42	" A. F. Simmons	2d do.		18, 19
" J. H. M. Sharples	1st do.		42, 45	" A. D. Skinner	2d do.		18, 19
" Joseph Taylor	1st do.		42, 43	" Richard Wood	2d do.		20, 20
" J. M. Whitehead	1st do.		44, 45	" W. H. Kennedy	2d do.		-
" John Walsh	1st do.		Requal.	" J. R. Alford	3d do.		16, 17
				" Chas. Bridges	3d do.		15, 17

COMPANY M, FIRST REGIMENT INFANTRY - Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv.	Z. Buckley	3d Class,	17, 17	Priv.	John T. Lahey	3d Class,	16, 16
"	John F. Conlon	3d do.	15, 17	"	Rob. L. Milton	3d do.	17, 17
"	Robert Crowe	3d do.	15, 15	"	J. Ormerod	3d do.	15, 16
"	Hugh Dale	3d do.	16, 18	"	Jas. H. Reddy	3d do.	16, 19
"	John Delehunt	3d do.	16, 17	"	James Smith	3d do.	15, 17
"	John F. Dynes	3d do.	16, 17	"	F. Waldron	3d do.	15, 16
"	Harry Gorham	3d do.	15, 16	"	Wm. Wilson	3d do.	15, 16
"	Thos. Graham	3d do.	16, 16	Mus.	John Lee	3d do.	15, 15
"	J. A. Heywood	3d do.	15, 16	Priv.	Wm. Smith	3d do.	15, 15
"	Fred'k Horsman	3d do.	16, 17	Capt.	Serra L. Baley	3d do.	-
"	John F. Hughes	3d do.	17, 18	Priv.	John Leonard	3d do.	-

FIELD AND STAFF, SECOND REGIMENT INFANTRY.

Maj. F. G. Southmayd	D. M.,	Requal.	Hos. Std. C. S. Axtell	1st Class,	Requal.
Maj. David Clark	D. M.,	46, 50, 46	Sgt. Melvin N. Snow	1st do.	Requal.
Lt. S. S. Bumstead	D. M.,	48, 49, 47	Lt. A. C. Edson	2d do.	20, 21
Qm. Sgt. E. T. Stephens	D. M.,	Requal.	" C. D. Colson	2d do.	19, 19
Col. E. P. Clark	S. S.,	Requal.	Sgt. S. E. Leonard	2d do.	18, 19
Maj. E. R. Shumway	S. S.,	45, 49, 47	Dr. Maj. D. J. Calli-		
Sgt. Maj. F. D. Phillips	S. S.,	44, 48, 46	nan	3d do.	17, 18
Maj. P. D. Bridges	1st Class,	Requal.	Sgt. W. L. Clough	3d do.	15, 17
Lt. J. E. Lancaster	1st do.	45, 47	Mus. F. C. Dinsmore	3d do.	15, 16
Chap. J. C. Welwood	1st do.	44, 44	Mus. Wm. E. Turner	3d do.	16, 19
			Lt. Orland J. Brown	3d do.	-

COMPANY A, SECOND REGIMENT INFANTRY.

Capt. W. A. Condy	S. S.,	44, 48, 46	Priv. F. W. Copeland	3d Class,	16, 17
Lt. M. H. Tisdell	S. S.,	46, 50, 48	" S. E. Clapp	3d do.	17, 18
Lt. Edwin G. Barrett	S. S.,	44, 48, 47	" W. F. Cox	3d do.	15, 16
Sgt. G. F. Warren	S. S.,	44, 49, 46	" R. E. Dodge	3d do.	18, 15
Priv. H. R. Behrem	S. S.,	48, 48, 46	" J. Danielson	3d do.	15, 17
Sgt. F. H. Lütcke	1st Class,	42, 44	" C. B. Emerson	3d do.	16, 15
Corp'l G. W. Stebbins	1st do.	42, 42	" H. R. Fay	3d do.	16, 17
Corp'l G. E. Rix	1st do.	43, 43	" R. C. Green	3d do.	16, 17
Priv. G. E. Allison	1st do.	43, 43	" Fred. W. Green	3d do.	16, 17
Sgt. J. G. Gowans	2d do.	Requal.	" D. Gowans	3d do.	17, 18
Sgt. J. T. Cruikshank	2d do.	19, 20	" F. H. Howard	3d do.	20, 20
Corp'l J. A. Blair	2d do.	20, 21	" J. Harrington	3d do.	16, 16
Priv. F. H. Behrem	2d do.	19, 18	" E. B. Hall	3d do.	17, 20
" C. W. Clark	2d do.	20, 20	" J. S. Hogan	3d do.	15, 15
" W. J. Harkins	2d do.	18, 19	" G. W. Ham-		
" E. M. Howard	2d do.	18, 19	mond	3d do.	16, 16
" R. Hammond	2d do.	18, 20	" R. F. Kohlstrom	3d do.	16, 18
" A. Hutchinson	2d do.	19, 20	" C. E. Lovley	3d do.	15, 19
" E. Riedl	2d do.	19, 18	" J. T. Laflamme	3d do.	17, 18
" C. H. Smith	2d do.	20, 19	" G. F. Pond	3d do.	17, 19
" H. M. Stebbins	2d do.	19, 19	" C. A. Poland	3d do.	15, 16
Corp'l H. W. Woods	2d do.	19, 19	" W. H. Plummer	3d do.	16, 17
Priv. C. L. Engdahl	2d do.	19, 19	" W. J. Price	3d do.	15, 16
" F. L. Neider-			" A. W. Roberts	3d do.	16, 17
berger	2d do.	19, 21	" A. L. Roy	3d do.	15, 19
" M. G. Churchill	2d do.	18, 21	" E. B. Sawyer	3d do.	15, 16
" C. H. Webber	2d do.	16, 17	" C. W. Welxler	3d do.	16, 20
" J. H. Thrain	2d do.	-	" S. A. Wallace	3d do.	16, 19
1st Sgt. J. H. Lander	3d do.	16, 17	" D. M. Young	3d do.	15, 16
Mus. H. S. Marks	3d do.	18, 20	" H. C. Grover	3d do.	15, 16
Priv. W. H. Allison	3d do.	15, 18	" A. E. Hazelton	3d do.	17, 16
" H. B. Bond	3d do.	15, 16	" C. F. Lamberton	3d do.	15, 18

COMPANY B, SECOND REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Capt. H. McDonald .	D. M.,		44,48,47	Priv. A. W. Graves .	2d Class,		18, 18
Lt. John A. Sterling .	D. M.,		46,48,47	" W. M. Gwinnell .	2d do.		18, 19
Sgt. Henry J. Smith .	S. S.,		47,48,46	" H. R. Jenne .	2d do.		18, 18
Priv. M. W. Frawley .	S. S.,		45,48,48	" H. A. Kane .	2d do.		19, 20
" W. G. Gruendler .	S. S.,		44,48,48	" James Keough .	2d do.		18, 20
" Sam. E. Smith .	S. S.,	Requal.		" Frank H. Kuhn .	2d do.		18, 19
Sgt. H. J. Vesper .	1st Class,	Requal.		" Alfred Lonco .	2d do.		18, 19
Sgt. Thos. F. Burke .	1st do.		42, 42	" H. C. Meyrick .	2d do.	Requal.	
Corp'l G. H. St. John .	1st do.		42, 42	" E. F. McCarthy .	2d do.		18, 18
" H. Lawrence .	1st do.		42, 44	" C. C. Nally .	2d do.		19, 19
" Wm. G. Smith .	1st do.		45, 45	" C. E. Pease .	2d do.		20, 22
" A. J. Schaeffler .	1st do.		47, 45	" F. M. Rainger .	2d do.		19, 21
Priv. O. E. Alberts .	1st do.		43, 47	" H. J. Richmond .	2d do.		18, 19
" H. T. Broughton .	1st do.	Requal.		" P. C. Schaeffler .	2d do.		22, 22
" L. E. Kaplinger .	1st do.	Requal.		" John J. Shea .	2d do.		19, 19
" F. A. Wakefield .	1st do.		47, 48	" A. E. Stuckert .	2d do.		18, 19
" F. E. Wyman .	1st do.		43, 44	" J. P. Sullivan .	2d do.		20, 20
Lt. Paul R. Hawkins .	2d do.		20, 21	" Albert F. Ward .	2d do.		18, 20
Sgt. Wm. L. Young .	2d do.		19, 20	" H. C. Wakefield .	3d do.		21, 18
" Alvin E. Richmond .	2d do.	Requal.		Corp'l R. H. Bearse .	3d do.		15, 18
" J. F. Harrington .	2d do.		18, 19	Priv. F. A. Bissell .	3d do.		17, 20
Corp'l Wm. G. Adams .	2d do.		18, 19	" Floyd E. Bur-			
Mus. L. F. Schoch .	2d do.		20, 21	" lingham .	3d do.		16, 17
Priv. A. R. Brooks .	2d do.		21, 21	" John Duffy .	3d do.		15, 16
" Wm. A. Carter .	2d do.		18, 19	" Chas. E. Foster .	3d do.		16, 17
" E. H. Clark .	2d do.		18, 20	" P. Fitzgerald .	3d do.		16, 17
" E. P. Churchill .	2d do.		18, 19	" J. P. Gaffney .	3d do.		16, 16
" Chas. F. Davis .	2d do.		18, 22	" J. M. Holland .	3d do.		16, 17
" F. R. Daniels .	2d do.		18, 20	" M. F. Madden .	3d do.		15, 16
" Elmer A. Fitch .	2d do.		21, 21	" D. C. Payne .	3d do.		15, 22
" Louis Gaboury .	2d do.		18, 19	" A. D. Roberts .	3d do.		16, 17
" John Gour .	2d do.	Requal.		" A. D. Rose .	3d do.		15, 16
" Carl H. Greim .	2d do.		18, 19	" Geo. H. Spencer .	3d do.		15, 16
				" Chas. H. Wilson .	3d do.		15, 16

COMPANY C, SECOND REGIMENT INFANTRY.

Priv. A. D. Jefferson .	D. M.,	44,49,48	Priv. C. T. Fletcher .	2d Class,	18, 20
Priv. H. L. Adams .	S. S.,	45,48,46	" Henry J. Gross .	2d do.	18, 18
Sgt. Frank L. Allen .	S. S.,	45,48,48	" G. W. Hubbard .	2d do.	19, 20
Priv. C. E. Burbank .	S. S.,	44,49,46	" D. T. Jenkins .	2d do.	18, 18
Sgt. F. M. Clark, Jr. .	S. S.,	44,48,46	" Fred A. Jones .	2d do.	18, 19
Capt. H. B. Fairbanks .	S. S.,	45,48,46	Corp'l H. J. Kettell .	2d do.	20, 20
Sgt. John Fuller .	S. S.,	44,48,48	Priv. W. F. Little .	2d do.	18, 18
Lt. W. F. Gilman .	S. S.,	45,49,46	" H. K. Lovell .	2d do.	18, 19
Priv. C. E. Hildreth .	S. S.,	44,49,47	" C. B. Sartell, Jr .	2d do.	19, 20
Corp'l Geo. H. Hill .	S. S.,	46,48,49	" George A. Smith .	2d do.	19, 21
Priv. C. S. Holden .	S. S.,	45,48,46	" C. M. Stewart .	2d do.	18, 19
Priv. E. E. Johnson .	S. S.,	44,49,46	" F. W. Taft .	2d do.	18, 18
Sgt. Arthur C. King .	S. S.,	45,48,46	" Fred L. Ward .	2d do.	19, 19
Priv. I. L. Rheutan .	S. S.,	44,48,46	" A. L. Warren .	2d do.	18, 19
Lt. Phineas L. Rider .	S. S.,	45,48,48	" F. W. Wesson .	2d do.	18, 21
Priv. W. Stevenson .	S. S.,	45,50,46	" W. E. Booth .	3d do.	16, 16
Priv. A. F. Townsend .	S. S.,	44,48,47	" W. F. Boswell .	3d do.	17, 18
Sgt. H. H. Warren .	S. S.,	44,48,46	" F. W. Brigham .	3d do.	15, 18
Priv. A. B. Weixler .	S. S.,	44,47,46	" C. H. Colburn .	3d do.	15, 16
" W. N. Brooks .	1st Class,	45, 44	" J. G. Colles .	3d do.	15, 18
" H. W. Marsh .	1st do.	42, 43	" R. H. Dowse .	3d do.	15, 17
Bugler W. E. Briggs .	2d do.	18, 19	" Hoskison Gates .	3d do.	15, 16
Priv. W. L. Cheney .	2d do.	18, 18	" Solon G. Gray .	3d do.	16, 16
Corp'l W. E. Fairbanks .	2d do.	18, 19	" S. P. Harding .	3d do.	15, 16

COMPANY C, SECOND REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv.	W. M. Hunt	3d Class.	15, 15	Priv.	A. C. Scott	3d Class.	15, 17
"	Fred W. King	3d do.	15, 15	"	F. A. Springer	3d do.	16, 16
"	W. F. Knowlton	3d do.	15, 15	"	Edgar T. Waite	3d do.	15, 16
"	Fred W. Lamb	3d do.	16, 18	"	F. W. Wash- burn	3d do.	15, 15
"	F. H. Longley	3d do.	15, 15	"	W. E. Whitte- more	3d do.	15, 15
"	A. S. Langley	3d do.	15, 16				
"	J. B. Maynard	3d do.	15, 15				
"	Wm. L. Robin- son, Jr.	3d do.	15, 16				

COMPANY D, SECOND REGIMENT, INFANTRY.

Capt.	C. W. Brown	S. S.,	Requal	Priv.	S. H. Horn	2d Class,	21, 23
Lt.	Edgar R. Train	S. S.,	48,50,50	"	F. G. Kimball	2d do.	20, 22
Lt.	John P. Bleasues	S. S.,	47,48,47	"	Oscar A. Streeter	2d do.	21, 22
1st Sgt.	J. M. Prilev	S. S.,	46,48,47	"	Robert A. Ross	2d do.	21, 21
Sgt.	Thomas Rae, Jr.	S. S.,	49,50,50	"	A. T. Streeter	2d do.	20, 22
Priv.	Frank S. Bernard	S. S.,	49,50,48	"	Chas. H. Smith	2d do.	18, 18
"	Dennis J. Daley	S. S.,	44,50,48	"	W. J. Vigeant	3d do.	-
"	Fred'k Childs	S. S.,	46,48,46	Sgt.	Odilon Moreau	3d do.	15, 18
"	Hugh L. Elford	S. S.,	46,49,49	Priv.	Isaac Earnest	3d do.	17, 17
"	Napol'n Emery	S. S.,	44,48,46	"	C. A. Howes	3d do.	15, 18
"	P. J. McGue	S. S.,	44,49,47	"	L. W. Howes	3d do.	16, 20
"	Charles S. Rae	S. S.,	44,50,46	"	W. R. Hartley	3d do.	15, 19
"	F. A. Snyder	S. S.,	45,48,48	"	Charles Killian	3d do.	15, 17
"	John V. Brown	1st Class,	42, 44	"	George F. Orrill	3d do.	15, 17
"	Hugo Popp	1st do.	43, 46	"	Carl Pelott	3d do.	15, 16
"	John H. Ross	1st do.	42, 42	"	Geo. W. Sheen	3d do.	15, 16
"	W. A. Robinson	1st do.	44, 48	"	Geo. E. Taylor	3d do.	16, 20
Corp'l	W. D. Ballard	2d do.	-	"	W. Trumbley	3d do.	17, 17
Bug.	T. Bresnahan	2d do.	20, 22	"	F. S. Williams	3d do.	16, 20
Sergt.	Thos. H. Peck	2d do.	19, 20	"	Wm. W. Whit- lock	3d do.	15, 16
Priv.	Ed. C. Buckley	2d do.	20, 21	"	George Nash	3d do.	15, 16
"	J. K. Campbell	2d do.	18, 18	"	F. A. Carpenter	3d do.	-
"	Chas. R. Evans	2d do.	18, 18	"	T. W. Carroll	3d do.	-
"	John Gerbhardt	2d do.	19, 21	"	John J. Gubbins	3d do.	-
"	Conrad V. Hein	2d do.	19, 20				

COMPANY E, SECOND REGIMENT INFANTRY.

Priv.	C. A. Hinds	D. M.,	48,49,48	Sgt.	G. H. Glasheen	2d Class,	18, 21
Corp'l	Chas. L. Grav	S. S.,	48,49,46	Priv.	Gust Halberg	2d do.	19, 19
Sgt.	O. D. Hapgood	S. S.,	47,50,47	Mus.	P. M. Lacasse	2d do.	18, 19
Lt.	F. P. Hosmer	S. S.,	48,48,46	Priv.	P. H. Morgan	2d do.	20, 21
Corp'l	Rector J. Place	S. S.,	46,50,50	"	Otto E. Paul	2d do.	20, 22
Sgt.	Willie B. Smith	S. S.,	46,48,46	"	G. T. Sanger	2d do.	19, 20
Capt.	P. I. Barber	1st Class,	42, 44	"	E. L. Wrisley	2d do.	19, 22
Sgt.	Edwin R. Grav	1st do.	42, 44	"	A. L. Barrett	3d do.	17, 18
Corp'l	F. M. Henrich	1st do.	42, 43	"	H. J. Bosquet	3d do.	17, 19
Priv.	Victor M. Place	1st do.	42, 46	Corp'l	W. C. Collins	3d do.	16, 17
"	Frank S. Rand	1st do.	43, 42	Priv.	F. M. Connor	3d do.	15, 17
"	J. F. Sexton	1st do.	42, 42	"	C. P. Davis	3d do.	16, 17
"	M. F. Taylor	1st do.	43, 48	"	W. F. Doyle	3d do.	16, 16
Corp'l	F. W. Wallace	1st do.	43, 46	"	G. H. Eaton	3d do.	16, 16
Priv.	G. J. Clancey	2d do.	18, 19	"	F. C. Hartson	3d do.	16, 17
"	F. C. Combs	2d do.	18, 19	"	C. H. Henrich	3d do.	15, 18
"	Emory E. Ellis	2d do.	18, 21	"	E. J. Henrich	3d do.	16, 17
"	J. D. Francis	2d do.	19, 20	"	Ira H. Jerome	3d do.	15, 18

COMPANY E, SECOND REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Sgt. F. H. Johnson		3d Class,	16, 17	Priv. A. H. La Plant	3d Class,	16, 17	
Priv. W. A. Johnson		3d do.	15, 19	" M. J. Monahan	3d do.	17, 17	
Priv. George W. Lake		3d do.	17, 17	" W. A. Robbins	3d do.	16, 17	
Corp'l H. E. Leavitt		3d do.	17, 17	" F. A. Sampson	3d do.	16, 16	
Priv. N. Lussier		3d do.	15, 16	" F. S. Weymouth	3d do.	17, 19	

COMPANY F, SECOND REGIMENT INFANTRY.

Lt. H. H. Bolles	1st Class,	44, 42	Priv. A. A. Miner	2d Class,	17, 20
Capt. C. N. Edgell	D. M.,	Requal.	" J. T. Morrissey	2d do.	18, 19
Sgt. G. C. Goodale	S. S.	48, 49, 46	Corp'l A. L. Potter	2d do.	20, 20
Priv. C. E. Reed	1st do.	42, 44	Priv. A. M. Stone	2d do.	20, 21
Priv. C. A. Hinds	1st do.	Requal.	" C. H. Webber	2d do.	18, 21
Sgt. F. C. Batchellor	2d do.	18, 18	" A. L. Willson	2d do.	21, 21
Priv. J. B. Barnes,	2d do.	20, 21	" P. A. Ward	2d do.	18, 19
" M. Cutting	2d do.	20, 20	" O. R. Williams	2d do.	18, 20
" J. A. Cassaboom	2d do.	18, 19	Corp'l H. A. Whitney	2d do.	19, 20
" H. J. Coleman	2d do.	18, 20	Priv. W. H. Traverse	2d do.	-
Corp'l H. E. Carr	2d do.	20, 21	" Emerson Tyler	2d do.	-
Priv. A. Clifford	2d do.	21, 22	" Amos Derrv	2d do.	-
Sgt. W. J. Ela	2d do.	19, 19	" H. L. Curtis	2d do.	-
Priv. Daniel Ela	2d do.	19, 19	" J. Cornwell	3d do.	15, 18
Lt. A. A. Fowler	2d do.	21, 22	" A. Doyle	3d do.	15, 15
Priv. G. E. Goddard	2d do.	23, 24	Sgt. H. W. Goodwin	3d do.	15, 15
Sgt. A. A. Green	2d do.	19, 19	Priv. C. J. Williams	3d do.	16, 16
Priv. E. N. Hobby	2d do.	18, 18	" A. M. Lilley	3d do.	-
Corp'l G. W. Jiffson	2d do.	18, 18	" G. V. Kent, Jr.	3d do.	-
Priv. M. M. Knowlton	2d do.	20, 21	" H. A. Bixby	3d do.	-
" J. M. Moore,	2d do.	21, 21	" Lester N. Green	3d do.	-
" A. A. McRae	2d do.	17, 21	" Fred W. Foster	3d do.	-
" A. J. McRae	2d do.	18, 18			

COMPANY G, SECOND REGIMENT INFANTRY.

Sgt. F. E. Jeannette	S. S.,	44, 48, 47	Lt. Roger Morgan	2d Class,	19, 19
Sgt. W. H. Owens	S. S.,	50, 50, 48	Priv. R. M. Neidel	2d do.	21, 22
Priv. Z. C. Talbot	S. S.,	48, 50, 47	Corp'l P. J. Noone	2d do.	21, 21
Priv. Burroughs E. C.			Priv. P. J. Norton	2d do.	18, 21
Gillette	1st Class,	47, 45	Corp'l M. J. O'Brien	2d do.	20, 21
Lt. Wm. C. Hayes	1st do.	44, 44	Sgt. T. R. O'Brien	2d do.	18, 20
Capt. J. J. Leonard	1st do.	48, 45	Priv. H. H. Parkhurst	2d do.	18, 19
Priv. P. W. Tansy	1st do.	43, 44	Priv. Wm. H. Parks	2d do.	22, 22
" W. Butement	1st do.	44, 43	Bugler W. E. Parsons	2d do.	21, 22
" G. W. Bates	2d do.	19, 19	Priv. W. B. Pease	2d do.	20, 20
" P. J. Bresnan	2d do.	21, 22	Sgt. J. P. Quirk	2d do.	20, 21
" A. W. Bumstead	2d do.	21, 21	Priv. Charles S. Rice	2d do.	18, 18
" Thos. J. Burke	2d do.	20, 20	Corp'l Frank A. Slater	2d do.	19, 19
Corp'l W. W. Clapp	2d do.	18, 19	Priv. D. J. Spellacy	2d do.	22, 22
Priv. P. C. Comans	2d do.	18, 18	Corp'l T. A. Sweeney	2d do.	18, 18
" E. F. Connolly	2d do.	21, 21	Corp'l J. J. Toomey, Jr.	2d do.	18, 20
" Jerry Finn	2d do.	18, 18	Priv. R. J. Walsh	2d do.	18, 19
" T. J. Fitzgerald	2d do.	21, 21	" B. J. Whalen	2d do.	18, 18
" S. Galbraith	2d do.	23, 23	" Willie R. Clark	2d do.	-
Sgt. Wm. J. Hynes	2d do.	18, 18	" T. J. Barrett	3d do.	16, 17
Priv. Joseph Ledock	2d do.	20, 20	" J. H. Benson	3d do.	16, 18
" E. J. Leyden	2d do.	19, 19	Bugler P. J. Collins	3d do.	16, 16
" J. N. Lovely	2d do.	18, 20	Priv. A. J. Donovan	3d do.	16, 17
" Wm. J. Maher	2d do.	18, 19	" J. W. Fenton	3d do.	16, 17

COMPANY G, SECOND REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1898.	RANK.	NAME.	Record. Class.	Range Work. 1898.
Priv.	G. J. Fitzgerald	3d Class,	15, 16	Priv.	J. H. Rooney	3d Class,	15, 18
"	D. J. Hayes	3d do.	15, 16	"	H. J. Ryan	3d do.	15, 16
"	A. S. Haskins	3d do.	15, 16	"	J. F. Sculley	3d do.	16, 16
"	T. W. Hyde	3d do.	16, 16	"	P. E. Shea	3d do.	15, 17
"	Nell May	3d do.	16, 16	"	J. A. Smith	3d do.	17, 18
Corp'l	W. S. O'Brien	3d do.	15, 16	"	J. H. Spellman	3d do.	16, 17
Priv.	P. C. Powers	3d do.	17, 18	"	W. L. Stannard	3d do.	15, 16
"	Eber R. Reed	3d do.	17, 18	"	J. M. Sullivan	3d do.	16, 17
"	W. A. H. Robinson	3d do.	17, 18	"	Wm. P. Walsh	3d do.	15, 18
				"	F. G. Williams	3d do.	16, 16

COMPANY H, SECOND REGIMENT INFANTRY.

Lt.	E. T. Bridges	S. S.,	48, 49, 46	Priv.	H. W. Burroughs	3d Class,	15, 15
Sgt.	J. B. Bridges	S. S.,	47, 48, 46	"	Edward Britt	3d do.	16, 17
Sgt.	G. E. Arms	S. S.,	45, 49, 46	"	H. R. Clapp	3d do.	15, 17
Capt.	M. D. Bridges	1st Class,	45, 44	"	Lovell S. Clapp	3d do.	15, 16
Lt.	A. G. Childs	1st Class,	44, 46	"	Fred Chellis	3d do.	15, 15
Sgt.	H. H. Hayden	2d do.	23, 23	"	R. C. Clapp	3d do.	15, 18
Sgt.	F. A. Damon	2d do.	20, 23	"	Clarence E. Dole	3d do.	15, 15
Corp'l	E. A. Frary	2d do.	20, 20	"	W. H. Ennis	3d do.	16, 16
Corp'l	R. H. Burt	2d do.	22, 22	"	D. E. Furkey	3d do.	17, 17
Bug.	H. K. Briggs	2d do.	22, 24	"	G. W. Frost	3d do.	16, 16
Priv.	W. W. Arms	2d do.	18, 19	"	Eli Hawkes	3d do.	15, 19
"	C. R. Bridges	2d do.	19, 21	"	Dwight Jewett	3d do.	17, 17
"	M. K. Bridges	2d do.	19, 18	"	John McGrath	3d do.	15, 15
"	F. S. Brigham	2d do.	18, 18	"	Wm. E. Martin	3d do.	15, 17
"	E. D. Jewett	2d do.	18, 18	"	Henry Marcoe	3d do.	16, 17
"	H. F. Sanderson	2d do.	20, 21	"	A. M. Newman	3d do.	16, 18
"	S. E. Warner	2d do.	18, 20	"	C. Rhenbeck	3d do.	16, 17
Corp'l	F. A. Moebus	3d do.	16, 17	"	L. F. Richards	3d do.	15, 15
"	C. E. Higgins	3d do.	15, 19	"	Walter E. Tyler	3d do.	15, 18
"	F. L. Emery	3d do.	16, 16	"	W. W. Thayer		
Priv.	Hugh Adams	3d do.	16, 17	"	Jr.	3d do.	16, 17
"	F. D. Burnett	3d do.	17, 18	"	Wm. Thayer	3d do.	15, 16
"	E. Beaushamp	3d do.	17, 17	"	F. E. Williams	3d do.	16, 16
"	E. F. Bundy	3d do.	15, 16				

COMPANY I, SECOND REGIMENT INFANTRY.

Sgt.	D. J. Moynihan	1st Class,	46, 48	Mus.	L. Hebert	3d Class,	16, 17
"	F. M. Crittenden	1st do.	44, 48	Priv.	G. E. Boss	3d do.	16, 18
"	H. H. Crittenden	1st do.	45, 43	"	G. N. Burt	3d do.	15, 18
Priv.	G. E. Clark	1st do.	42, 43	"	F. Colton	3d do.	16, 16
Lt.	R. E. Southwick	2d do.	18, 20	"	E. W. Fenn	3d do.	15, 19
Priv.	F. E. Austin	2d do.	19, 19	"	J. Finn	3d do.	15, 15
"	J. W. Fenton	2d do.	19, 19	"	J. Flynn	3d do.	17, 19
"	E. L. Pelletier	2d do.	18, 18	"	J. W. Goodwin	3d do.	16, 16
"	C. J. Ryan	2d do.	18, 19	"	G. W. Gunn	3d do.	16, 18
"	H. Shaw	2d do.	19, 19	"	P. Haughton	3d do.	16, 18
"	H. W. Wells	2d do.	21, 22	"	N. Laplant	3d do.	15, 15
Capt.	H. L. Williams	3d do.	15, 18	"	G. M. Locke	3d do.	17, 19
Lt.	G. P. Allen	3d do.	16, 17	"	J. Lucier	3d do.	17, 21
Sgt.	A. C. Thompson	3d do.	17, 19	"	C. W. Moynihan	3d do.	17, 19
Sgt.	G. A. Thayer	3d do.	16, 18	"	han	3d do.	17, 19
Corp'l	W. C. Thayer	3d do.	16, 17	"	W. A. Noble	3d do.	15, 16
"	William Gray	3d do.	16, 16	"	C. P. Pettis	3d do.	17, 21
"	W. C. Wetherell	3d do.	15, 16	"	T. A. Parseglove	3d do.	15, 18
"	L. P. Wood	3d do.	15, 20	"	H. V. Schadee	3d do.	16, 19

COMPANY I, SECOND REGIMENT INFANTRY — Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. C. H. Warner .		3d Class,	17, 18	Priv. G. A. Brown .	3d Class,	17, 17	
" W. H. Webster .		3d do.	15, 16	" J. R. Gifflian .	3d do.	16, 17	
" Wm. Wenzel .		3d do.	15, 16	" C. W. Puffer .	3d do.	16, 18	

COMPANY K, SECOND REGIMENT INFANTRY.

Sgt. Geo. W. Bolles .	S. S.,	48,48,47	Priv. H. A. Goodrich	2d Class,	19, 19
Priv. P. M. Dodge .	S. S.,	45,48,47	" Harry Graves .	2d do.	18, 18
Sgt. S. B. Eastman .	S. S.,	44,48,46	" C. W. Glazier .	2d do.	18, 20
Mus. F. A. Eastman .	S. S.,	44,48,46	" F. W. Juckett .	2d do.	20, 20
Lt. W. A. Thayer .	S. S.,	44,48,46	" John McKenna .	2d do.	18, 18
Lt. C. E. Rogers .	S. S.,	45,49,46	" Louis Musante .	2d do.	18, 20
Sgt. F. S. Talmadge .	S. S.,	44,48,46	" Patrick Murphy .	2d do.	20, 21
Priv. C. H. Williams .	S. S.,	45,48,47	" G. M. Parker .	2d do.	18, 18
Corp'l S. R. Brown .	1st Class,	42, 42	" R. M. Redding .	2d do.	18, 20
Sgt. J. C. Doherty .	1st do.	42, 42	" T. C. Studley .	2d do.	18, 18
Priv. F. W. Edgington	1st do.	42, 42	" Wm. Sullivan .	2d do.	18, 18
Corp'l Wm. Esip .	1st do.	42, 44	" John J. Brett .	2d do.	16, 19
Priv. G. L. Hawley .	1st do.	42, 42	" John McBishop .	3d do.	15, 15
Sgt. Silas E. Jay .	1st do.	42, 42	" Eber Blanchard .	3d do.	15, 16
Corp'l Wm. Kelley .	1st do.	42, 43	" John C. Barry .	3d do.	16, 18
Corp'l H. L. Merritt .	1st do.	42, 42	" B. F. Brown .	3d do.	16, 16
Capt. E. G. Thayer .	1st do.	42, 42	" C. C. Connors .	3d do.	18, 18
Priv. H. Tillson .	1st do.	42, 42	" I. Crompton .	3d do.	15, 15
" C. S. Tillson .	1st do.	42, 42	" Otto P. Hurlbert	3d do.	17, 17
" C. A. Tucker .	1st do.	42, 43	" Fred B. Holden .	3d do.	15, 16
" D. G. Williams .	1st do.	42, 42	" Thos. Maloney .	3d do.	17, 18
" A. H. Wales .	1st do.	43, 43	" Earl N. Morse .	3d do.	15, 15
" I. E. Boovin .	2d do.	19, 19	" Frank P. Moran .	3d do.	15, 15
" Chas. H. Bias .	2d do.	18, 18	" H. H. Wolcott .	3d do.	15, 18
" H. M. Brown .	2d do.	18, 19	" O. E. Wolcott .	3d do.	15, 16
" J. V. B. Brown .	2d do.	18, 19	" W. O. Wilson .	3d do.	15, 15
" Joseph A. Buck .	2d do.	20, 21	" Amos Ward .	3d do.	15, 16
" Mark H. Buck- man .	2d do.	18, 19			

COMPANY L, SECOND REGIMENT INFANTRY.

Lt. F. B. Felton .	D. M.,	48,50,48	Priv. N. Blonin .	2d Class,	Requal.
Priv. H. Johnson .	D. M.,	47,48,48	" F. H. Clapp .	2d do.	19, 19
" F. M. Munson .	S. S.,	45,50,49	" C. C. Class .	2d do.	18, 19
" H. J. Stearns .	S. S.,	45,50,47	" P. E. Fitzgerald	2d do.	18, 19
Sgt. E. S. Rockwood .	1st Class,	45, 45	" C. H. Goodnow .	2d do.	18, 20
Sgt. J. R. Bickford .	1st do.	47, 46	Mus. C. H. Hall .	2d do.	18, 20
Corp'l F. B. Mason .	1st do.	44, 43	Priv. C. Hickey .	2d do.	19, 20
Corp'l G. H. Stearns .	1st do.	44, 43	" J. E. Hohner .	2d do.	Requal.
Priv. F. C. Alston .	1st do.	42, 42	" S. Kennedy .	2d do.	19, 19
" S. H. Burroughs	1st do.	Requal.	" R. A. Lee .	2d do.	19, 19
" J. W. Elder .	1st do.	Requal.	" H. O. Rockwood	2d do.	18, 20
" F. O'Brien .	1st do.	42, 42	" J. H. Sears .	2d do.	19, 23
Capt. F. E. Pierce .	2d do.	20, 20	" J. F. Stark .	2d do.	18, 18
Lt. C. H. Field .	2d do.	18, 18	" C. O. Wells .	2d do.	19, 20
Sgt. E. P. Harrison .	2d do.	20, 23	" H. M. Woodard	2d do.	18, 19
Sgt. J. H. Smead .	2d do.	19, 20	" J. E. Yetter .	2d do.	20, 20
Corp'l C. E. Winslow	2d do.	18, 19	" E. H. Baker .	3d do.	15, 17
Corp'l E. R. Sears .	2d do.	20, 21	" A. T. Beals .	3d do.	15, 20
Priv. D. A. Aldrich .	2d do.	18, 19	" C. F. Blodgett .	3d do.	15, 17
" J. M. Bitzer .	2d do.	18, 19	" M. Chase .	3d do.	15, 16

COMPANY L, SECOND REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. J. F. Ferrestall		3d Class,	15, 16	Priv. B. M. Dow		3d Class,	-
" W. H. Miller		3d do.	15, 16	" J. L. Fegan		3d do.	-
" H. E. Potter		3d do.	16, 20	" G. R. Loomis		3d do.	-
" M. J. Powers		3d do.	15, 18	" J. W. Magrath		3d do.	-
" C. J. Rist		3d do.	16, 16	" F. A. Morey		3d do.	-
" F. T. Scaman		3d do.	16, 18	" G. R. Nash		3d do.	-
" P. Wayand		3d do.	15, 17	" J. B. Smead		3d do.	-
" C. Wise		3d do.	15, 16	" M. F. Withed		3d do.	-
" H. Murphy		3d do.	15, 16				

COMPANY M, SECOND REGIMENT INFANTRY.

Capt. R. A. Whipple	D. M.,	48,50,48	Priv. Charles Plank	2d Class,	18, 20
Corp'l J. C. Cadigan	D. M.,	50,50,48	" Wm. Rice	2d do.	20, 21
Lt. H. O. Hicks	S. S.,	50,50,49	" J. Robinson	2d do.	20, 20
Sgt. E. J. Laferriere	S. S.,	Requal.	" Gustave Smith	2d do.	18, 21
Sgt. M. N. Lothrop	S. S.,	48,48,46	" G. A. Wells	2d do.	20, 21
Corp'l G. F. Sayles	S. S.,	Requal.	Sgt. P. Hennessy	3d do.	16, 18
Priv. G. E. Whipple	S. S.,	Requal.	Corp'l M. F. Welch	3d do.	16, 19
Lt. Ezra N. Jones	1st do.	48, 48	Priv. E. L. Ainslie	3d do.	17, 17
Sgt. G. E. Simmons	1st do.	46, 44	" Thomas Best	3d do.	16, 18
Priv. Fred. E. Busby	1st do.	47, 46	" Chas Carlow	3d do.	15, 18
" M. S. Glasier	1st do.	45, 42	" G. Cartwright	3d do.	15, 16
" E. F. Nimmons	1st do.	45, 43	" G. M. Chase	3d do.	16, 19
Sgt. Wm. O'Brien	2d do.	22, 22	" John Conway	3d do.	15, 15
Corp'l W. Hodecker	2d do.	19, 20	" G. J. Crosier	3d do.	17, 17
Corp'l B. E. Milliman	2d do.	21, 22	" Wm. Gavin	3d do.	16, 17
Bug. J. S. Bordeleau	2d do.	21, 21	" C. F. Hathaway	3d do.	15, 17
Priv. S. J. Covey	2d do.	18, 19	" R. W. Hunter	3d do.	17, 19
" E. L. Delancy	2d do.	21, 22	" J. E. Kershaw	3d do.	15, 17
" D. R. Dynes	2d do.	19, 18	" Victor King	3d do.	15, 16
" A. Gadway	2d do.	21, 22	" Peter McBride	3d do.	15, 18
" Levi Gravel	2d do.	21, 21	" L. Purcell	3d do.	15, 17
" Gilbert A. Harrington,	2d do.	20, 20	" E. Rolland, Jr.	3d do.	15, 18
" Frank Hiser	2d do.	19, 20	" Frank Rolland	3d do.	16, 17
" Wm. Lacy	2d do.	18, 20	" H. J. Ruel	3d do.	16, 17
" Wm. Mascraft	2d do.	18, 19	" John Sturm	3d do.	16, 17
" F. McNulty	2d do.	18, 19	" Wm. Carlow	3d do.	-
" Wm. Moore,	2d do.	18, 20	" D. Meiklejohn	3d do.	-
			" John Sullivan	3d do.	-

FIELD AND STAFF, SIXTH REGIMENT INFANTRY.

Lt. James W. Jones	1st Class,	48, 49	Lt. O. P. Porter	2d Class,	19, 22
Sgt. Maj. F. P. Valentine	1st do.	45, 45	Lt. E. L. Tucker	2d do.	18, 20
Maj. G. H. Chaffin	2d do.	22, 21	Sgt. C. H. Greenwood	2d do.	-
Lt. John M. Carpenter	2d do.	21, 18	Maj. G. H. Taylor	S. S.,	-
Maj. C. K. Darling	2d do.	20, 22	Lt. Col. C. F. Woodward	3d do.	-
Col. Henry Parsons	2d do.	18, 18			

COMPANY A, SIXTH REGIMENT INFANTRY.

Capt. E. W. Gilson	D. M.,	50,49,47	Priv. J. H. Keough	D. M.,	49,50,47
Sgt. Frank E. Gray	D. M.,	48,49,49	Bug. P. S. Killam	D. M.,	48,50,46
Corp'l Roger Howard	D. M.,	50,50,48	Lt. P. J. Flanders	S. S.,	44,49,47

COMPANY A, SIXTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Sgt. E. E. Morrison.	S. S.,		46, 48, 46	Priv. M. E. Sliney .	2d Class,		18, 19
Priv. W. R. Murphy	S. S.,		50, 49, 46	" W. Sweetser .	2d do.		18, 18
Sgt. John L. Orr .	S. S.,		48, 50, 49	" H. W. Stoddard	2d do.		18, 18
Corp'l Charles Bridge	1st Class.		43, 47	" J. Sutherland .	2d do.		18, 19
Sgt. William E. Gray	1st do.		45, 47	" John Stock .	2d do.		19, 20
Priv. Dion A. Malone	1st do.		43, 43	" Geo. J. Thrush	2d do.		19, 20
Sgt. C. F. Parker .	1st do.		43, 45	" Lee Tupper .	2d do.		18, 22
Priv. H. H. Sweetser	1st do.		42, 44	" Alvin M. Wood-			
Lt. C. E. Walton .	1st do.		43, 46	man .	2d do.		18, 18
Corp'l A. J. Walton .	1st do.		42, 46	" Levi Balmforth	2d do.		16, 16
Priv. G. W. Abbott .	2d do.		18, 20	" H. Blenkhorn .	3d do.		15, 16
" M. H. Anderson	2d do.		18, 20	" P. J. Bowker .	3d do.		16, 16
" C. W. Cheever .	2d do.		18, 18	" E. C. Corbin .	3d do.		15, 16
" G. W. Chesley .	2d do.		18, 18	" Geo. A. Dean .	3d do.		17, 17
" Fred B. Cutter .	2d do.		18, 20	" Manuel Dingle	3d do.		15, 16
" M. A. Dunshee .	2d do.		18, 20	" Wm. Feindle .	3d do.		15, 17
" John Drugan .	2d do.		18, 18	" H. A. Feindle .	3d do.		15, 16
" J. J. Gleason .	2d do.		18, 18	" George H. Hall	3d do.		15, 15
" Frank N. Har-				" H. E. Hooper .	3d do.		15, 15
ington .	2d do.		18, 20	" Geo. E. Larose	3d do.		15, 16
" E. A. Harris .	2d do.		20, 22	" John Logan .	3d do.		16, 18
" William G. C.				" J. H. McMahan	3d do.		16, 18
Horton .	2d do.		18, 19	" C. S. Oliver .	3d do.		16, 16
Corp'l N. H. Hawes	2d do.		18, 18	" G. O. Russell .	3d do.		15, 16
Priv. Fred L. Knight	2d do.		19, 19	" F. E. Stoddard	3d do.		16, 16
" H. F. Lawrence	2d do.		18, 18	" C. J. Taber .	3d do.		16, 16
" S. McGregor .	2d do.		18, 19	Corp'l C. J. Washburn	3d do.		16, 17
" J. D. Murphy .	2d do.		18, 18	Corp'l F. A. Weldon	3d do.		16, 16
" A. D. Oxley .	2d do.		18, 18	Priv. Fred F. Wilder	3d do.		16, 16
" W. E. Russell .	2d do.		19, 19	Priv. S. Fred Wiggln	3d do.		15, 18

COMPANY B, SIXTH REGIMENT INFANTRY.

Capt. Geo. H. Priest	1st Class,	45, 43	Priv. G. E. Howard .	2d Class,	19, 19
Corp'l F. A. Tolman	1st do.	44, 48	" H. D. Littlehale	2d do.	20, 20
Corp'l Geo. E. Walls	1st do.	42, 42	" Chas. U. Miller	2d do.	18, 18
Priv. H. W. Hayes .	1st do.	42, 43	" D. R. Nichols .	2d do.	20, 22
" J. W. Howard	1st do.	42, 46	" E. H. Nutting .	2d do.	18, 19
" N. H. Mackay	1st do.	44, 45	" T. C. Nutting .	2d do.	18, 19
" Chas. F. Morse	1st do.	44, 43	" Chas. E. Oliver	2d do.	18, 20
" E. E. Taylor .	1st do.	46, 44	" H. H. Perley .	2d do.	18, 18
Lt. H. D. Moulton .	2d do.	19, 18	" C. W. Robinson	2d do.	Requal.
Lt. D. W. Colburn .	2d do.	18, 18	" Geo. T. Sands .	2d do.	19, 21
1st Sgt. E. A. Bruce	2d do.	18, 18	" James C. Smith	2d do.	19, 20
" A. R. Fellows .	2d do.	20, 20	" E. E. Tennant .	2d do.	19, 19
" H. N. Lawrence	2d do.	19, 19	" Geo. E. Tootill	2d do.	18, 21
" Ernest V. Rugg	2d do.	18, 19	" Wm. A. Wright	2d do.	19, 21
Mus. Geo. M. Piper .	2d do.	19, 19	Corp'l Frank A. Bliss	3d do.	15, 16
Priv. H. B. Allen .	2d do.	19, 19	Corp'l W. J. Robinson	3d do.	17, 17
" W. C. Bigelow	2d do.	18, 18	Priv. H. K. Bennett.	3d do.	15, 15
" W. H. Boutelle	2d do.	19, 19	" Edw. B. Curtis	3d do.	15, 17
" W. H. L. Brooks	2d do.	18, 19	" D. I. Dewey .	3d do.	15, 17
" W. G. Classon	2d do.	18, 21	" R. F. Fairbanks	3d do.	15, 15
" Frank E. Craig	2d do.	19, 20	" H. D. Follett .	3d do.	15, 20
" G. E. Demack .	2d do.	19, 22	" J. E. McClure .	3d do.	16, 17
" A. A. Demmon .	2d do.	20, 21	" H. E. McKenney	3d do.	16, 16
" A. Dongworth .	2d do.	18, 19	" Fred S. Moore .	3d do.	16, 17
" J. Dongworth .	2d do.	21, 22	" Wm. K. Morse	3d do.	15, 18
" Alex. S. Ewen .	2d do.	18, 19	" Chas. P. Smith	3d do.	15, 16
" Carl L. Fallon .	2d do.	22, 23	" E. L. Starkey .	3d do.	16, 18
" Frank V. Gilson	2d do.	18, 19	" Edw. Svenson .	3d do.	15, 18

COMPANY B, SIXTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. L. E. Tenney .		3d Class,	16, 17	Sgt. H. W. Huntley .		3d Class,	-
" Gerry E. Wells .		3d do.	15, 17	Priv. R. T. Brooks .		3d do.	-
" E. B. Wright .		3d do.	16, 19				

COMPANY C, SIXTH REGIMENT INFANTRY.

Sgt. A. B. Peters .	S. S.,	46,49,46	Priv. A. Goodridge .	2d Class,	18, 23
Sgt. G. C. Wenden .	S. S.,	Requal.	" W. Harmston .	2d do.	18, 18
Corp'l A. D. Colby .	S. S.,	48,48,50	" A. P. Heath .	2d do.	19, 19
Mus. F. C. Stevens .	S. S.,	49,50,46	" B. W. Kelly .	2d do.	20, 22
Priv. H. P. Board-			" W. L. Kinsella .	2d do.	19, 20
man .	S. S.,	46,49,46	" W. T. Meagher .	2d do.	18, 18
" G. V. Cutting .	S. S.,	44,49,49	" H. Midgley .	2d do.	18, 19
" W. C. Gannon .	S. S.,	50,50,50	" W. J. Robinson .	2d do.	20, 22
Lt. A. D. Prince .	1st Class,	43, 42	" S. Waterworth .	2d do.	18, 18
Lt. Alex. Greig, Jr.,	1st do.	42, 44	" A. Lybrand .	2d do.	-
Sgt. S. S. Cunn-			" C. H. Additon .	2d do.	19, 19
ingham	1st do.	42, 45	" C. R. De Catur .	2d do.	-
Sgt. H. T. B. Richard-			" W. E. Farris .	2d do.	-
son	1st do.	45, 45	" C. F. Graham .	2d do.	-
Corp'l F. I. Costello .	1st do.	43, 42	" J. M. Book .	3d do.	16, 17
Priv. G. E. Ahlberg .	1st do.	Requal.	" A. C. Emerson .	3d do.	15, 18
" W. J. Hurd .	1st do.	45, 45	" A. Hersome .	3d do.	16, 16
" B. J. Pearson .	1st do.	42, 43	" Otto Nelson .	3d do.	15, 16
" I. B. Romaine .	1st do.	-	" C. W. Pihl .	3d do.	15, 16
" Charles Wilson .	1st do.	42, 50	" C. W. Russell .	3d do.	15, 18
Corp'l F. D. Costello	2d do.	20, 20	" H. W. Steven-		
" E. W. Daley .	2d do.	19, 21	son .	3d do.	16, 16
" T. Livingston .	2d do.	20, 20	" C. O. Stevens .	3d do.	15, 15
Priv. A. Ashworth .	2d do.	21, 22	Corp'l J. J. Nichols .	3d do.	-
" G. F. Beharrell .	2d do.	Requal.	Priv. R. J. Hodges .	3d do.	-
" J. F. Boyle .	2d do.	19, 20	" Ezra A. Nichols .	3d do.	-
" H. W. Crooker .	2d do.	20, 23	" F. L. Roberts .	3d do.	-
" Edw. J. Gannon	2d do.	Requal.			

COMPANY D, SIXTH REGIMENT INFANTRY.

Capt. J. E. McConnell	1st Class,	42, 44	Priv. J. J. Sullivan .	2d Class,	19, 19
Lt. J. J. Driscoll .	1st do.	42, 43	Sgt. J. J. Shea .	2d do.	-
Sgt. J. F. Bresnahan	1st do.	42, 43	Corp'l P. J. Conlon .	2d do.	-
Sgt. J. F. McDowell	1st do.	43, 42	Priv. G. W. Fagan .	2d do.	-
Priv. W. L. Conroad	1st do.	42, 43	" E. Lapan .	2d do.	-
" L. F. Fagan .	1st do.	42, 43	" M. Riordan .	2d do.	18, 19
" H. F. Lougee .	1st do.	44, 43	" G. F. Brody .	3d do.	15, 17
" J. J. McDowell	1st do.	43, 43	" Edw. H. Burns	3d do.	15, 17
Lt. J. F. McNamara	2d do.	20, 20	" M. F. Fahey .	3d do.	16, 17
Sgt. C. M. Lynch .	2d do.	18, 19	" W. F. Lougee .	3d do.	15, 16
Corp'l W. H. Brody	2d do.	19, 19	" R. O'Donnell .	3d do.	15, 16
" J. J. Kittredge .	2d do.	20, 21	" W. J. Sawyer .	3d do.	16, 16
" A. J. Whelan .	2d do.	18, 18	" John Taylor .	3d do.	15, 15
Priv. J. F. Collins .	2d do.	18, 18	" J. A. Goodroad	3d do.	17, 18
" J. T. Gallagher	2d do.	18, 19	" R. F. Wilson .	3d do.	16, 19
" M. Killeen .	2d do.	19, 21	" James Farron .	3d do.	-
" E. H. Meegan .	2d do.	18, 18	Corp'l J. W. Malone .	3d do.	-
" P. J. Moran .	2d do.	19, 19	Priv. J. McGorley .	3d do.	-
" J. F. Shea .	2d do.	18, 19			

COMPANY E, SIXTH REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. G. F. Howland		1st Class,	43, 42	Priv. E. S. Taylor		2d Class,	20, 20
Lt. J. W. Jones		1st do.	47, 48	" G. F. Thomas		2d do.	20, 20
Corp'l H. E. Miller		1st do.	45, 48	" J. A. Winchen-			
Priv. H. W. Simpson		1st do.	42, 46	baugh		2d do.	21, 21
Sgt. F. P. Valentine		1st do.	44, 45	" A. R. Yates		2d do.	18, 19
Corp'l J. C. Valentine		1st do.	48, 47	" Harry E. Bacon		3d do.	15, 16
Priv. C. Adams		2d do.	18, 18	" F. D. Blake		3d do.	15, 17
Lt. W. A. Brown		2d do.	18, 19	" G. M. Bent		3d do.	15, 16
Sgt. W. F. Blake		2d do.	18, 20	" A. W. Coleman		3d do.	15, 16
Sgt. Geo. Beard		2d do.	20, 21	" C. W. Coolidge		3d do.	17, 17
Corp'l Harry A. Bent		2d do.	18, 19	" W. B. Chace		3d do.	15, 18
Priv. A. E. Bent		2d do.	19, 20	" C. H. B. Chapin		3d do.	15, 17
Corp'l M. C. Brown		2d do.	20, 22	" Wilbur Drury		3d do.	15, 16
Priv. M. J. Brown		2d do.	18, 19	" Felix Dora		3d do.	16, 17
" I. S. Cunningham				" W. H. Frank-			
ham		2d do.	18, 18	land		3d do.	15, 16
" E. Dickinson		2d do.	18, 20	" W. F. Frankland		3d do.	15, 17
" E. L. Eames		2d do.	18, 19	" J. W. Gove		3d do.	16, 17
Sgt. H. W. Fay		2d do.	21, 23	" C. F. Garfield		3d do.	16, 18
Corp'l F. T. Fisher		2d do.	22, 22	" A. K. Greenlaw		3d do.	15, 17
Sgt. A. I. Hunting		2d do.	21, 21	" Jas. I. Hamilton		3d do.	17, 19
Priv. E. A. Isham		2d do.	18, 19	" I. M. Hamilton		3d do.	16, 17
Capt. F. E. Miller		2d do.	18, 21	" F. L. Harding		3d do.	16, 17
Priv. H. J. Metcalf		2d do.	18, 19	" W. F. Howland		3d do.	16, 16
" A. A. Morse		2d do.	19, 21	Sgt. C. A. Hunting		3d do.	17, 18
" W. E. Morse		2d do.	19, 20	Priv. Geo. H. Marcy		3d do.	15, 16
" C. E. Morse		2d do.	18, 19	" Fred W. Mace		3d do.	15, 18
Corp'l J. S. McNeilly		2d do.	20, 20	" R. J. McCann		3d do.	15, 16
Priv. A. P. McPherson		2d do.	18, 19	" H. D. Neary		3d do.	16, 18
" J. F. McPherson		2d do.	18, 19	" G. H. Pride		3d do.	16, 22
" F. S. Nourse		2d do.	19, 20	" Geo. W. Rock		3d do.	17, 18
" R. S. Place		2d do.	21, 21	" D. M. Travis		3d do.	15, 15
" F. N. Proctor		2d do.	20, 20	" B. E. Wells		3d do.	15, 16
" D. C. Raymond		2d do.	19, 19	" G. F. Whitte-			
" H. W. Reynolds		2d do.	18, 18	more		3d do.	15, 17
Mus. J. S. Rockwood		2d do.	18, 19				

COMPANY F, SIXTH REGIMENT INFANTRY.

Sgt. C. F. Stratford	1st Class,	Requal.	Priv. C. W. Holbrook	2d Class,	19, 19
Corp'l G. W. Olmstead	1st do.	Requal.	Sgt. Chas. H. Banks	3d do.	15, 16
Capt. T. E. Jackson	2d do.	19, 21	Corp'l J. E. McGee	3d do.	15, 15
Lt. Geo. A. Devlin	2d do.	20, 21	Priv. G. C. Brigham	3d do.	15, 17
Lt. H. B. Chamber-			" W. J. D. Brown	3d do.	16, 17
lain	2d do.	20, 21	" J. H. Dow	3d do.	15, 16
Sgt. E. L. Morse	2d do.	21, 21	" C. E. Jandru	3d do.	15, 16
Sgt. Wm. H. Finn	2d do.	18, 19	" E. E. Merritt	3d do.	17, 20
Corp'l Fred Smith	2d do.	18, 18	" F. L. Riley	3d do.	16, 18
" Chas. L. Stone	2d do.	18, 18	" J. L. Tredo	3d do.	15, 15
" W. B. Jacques	2d do.	20, 20	" M. F. Tambo	3d do.	16, 18
" T. F. English	2d do.	18, 21	" G. E. Stone	3d do.	17, 17
" F. W. Stronach	2d do.	18, 19	" V. C. Holt	3d do.	15, 19
Priv. A. W. Hosmer	2d do.	18, 19	" L. A. Russell	3d do.	16, 16
" H. G. Lively	2d do.	18, 18	" I. S. Dunn	3d do.	15, 17
" W. H. Swift	2d do.	18, 21			

COMPANY G, SIXTH REGIMENT INFANTRY.

Priv. Alfred Davis	D. M.,	44, 48, 48	Sgt. Emery S. Soule	S. S.,	46, 48, 48
Sgt. Frank L. Mealey	S. S.,	47, 48, 46	Capt. Edward B. Carr	1st Class,	42, 43

COMPANY G, SIXTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1898.	RANK.	NAME.	Record. Class.	Range Work. 1898.
Priv. M. T. Cowen .	1st Class,	42, 43		Priv. F. J. Tobin .	2d Class,	18, 19	
Lt. Wm. Fairweather	1st do.	Requal.		" F. T. Weeks .	2d do.	19, 20	
Sgt. Henry H. Farr .	1st do.	45, 43		" W. W. Wiley .	2d do.	20, 21	
" L. G. Hunton .	1st do.	42, 43		" F. D. Aubrey .	2d do.	-	
" Oscar S. Jones .	1st do.	Requal.		Corp'l W. H. Whitston	2d do.	18, 19	
Priv. Edwin G. Baker	2d do.	21, 24		Priv. Frank M. Bell	3d do.	17, 18	
Priv. Harry H. Bond	2d do.	18, 19		" Archie E. Crafts	3d do.	15, 15	
Corp'l J. W. Bussell .	2d do.	21, 21		" F. X. Destalair	3d do.	15, 16	
Priv. W. J. Cassidy	2d do.	20, 22		Sgt. Frank Dodge .	3d do.	17, 19	
" E. R. Delmage	2d do.	20, 22		Priv. C. L. Gardner .	3d do.	17, 17	
" Gilbert Forgays	2d do.	18, 18		" J. R. Gellinas .	3d do.	16, 17	
" J. T. Forgays .	2d do.	19, 19		" D. J. Geroux .	3d do.	16, 17	
Corp'l Fred G. Hills	2d do.	20, 20		" F. H. Green-			
Lt. Geo. S. Howard .	2d do.	18, 20		wood .	3d do.	15, 15	
Bug. W. C. Jaques .	2d do.	20, 20		" James Henry .	3d do.	15, 16	
Priv. B. Kearnes	2d do.	18, 19		" John A. Lynn	3d do.	17, 20	
" C. H. McCul-				" W. R. Magoon	3d do.	15, 16	
lough .	2d do.	18, 19		" C. H. McKenny	3d do.	15, 18	
" W. F. Miles .	2d do.	18, 19		" J. H. Sullivan	3d do.	15, 18	
" C. H. Morrisbn	2d do.	19, 21		" C. W. Thurston	3d do.	15, 16	
" J. H. Pearson .	2d do.	18, 21		" Colin Campbell	3d do.	-	
Corp'l Richard Place	2d do.	18, 21		" Harry Galtley .	3d do.	-	
Priv. Chas. E. Poor .	2d do.	21, 21		" W. E. Golden .	3d do.	-	
Priv. Austin Rall .	2d do.	18, 19		Corp'l F. J. Mattoon	3d do.	-	
Sgt. Ora W. Smith .	2d do.	18, 19					

COMPANY H, SIXTH REGIMENT INFANTRY.

Sgt. W. E. Sweetser .	D. M.,	50, 50, 47	Priv. J. F. Magner .	2d Class,	18, 18
Sgt. B. A. Freeman .	1st Class,	44, 47	" D. A. Stevens .	2d do.	18, 20
Priv. Geo. Durward .	1st do.	48, 43	" J. W. Reynolds	2d do.	18, 18
" R. F. Chase .	1st do.	47, 43	" G. W. Thayer .	2d do.	19, 19
" C. R. Kollock .	1st do.	42, 49	Lt. F. F. Green .	3d do.	16, 18
" P. A. Mansfield	1st do.	48, 48	Sgt. J. E. Johnson .	3d do.	15, 16
" A. W. Nason .	1st do.	44, 44	Mus. F. A. Wilkins	3d do.	16, 18
" A. N. Newhall .	1st do.	46, 43	Priv. F. R. Alberty	3d do.	16, 16
Corp'l G. R. Barnstead	1st do.	23, 23	" Geo. Alberty .	3d do.	16, 17
" N. G. Evans .	1st do.	22, 28	" M. F. Ames .	3d do.	15, 16
" W. S. Hurd .	1st do.	21, 21	" W. H. Blake .	3d do.	17, 19
" C. W. Hough-			" T. F. Bready .	3d do.	16, 16
ton .	1st do.	23, 24	" A. H. Cass .	3d do.	16, 21
" James Quinn .	1st do.	20, 21	" W. H. Green .	3d do.	16, 18
" H. A. Thayer .	1st do.	18, 18	" A. A. Green .	3d do.	16, 16
Priv. A. L. Bean .	1st do.	18, 19	" H. L. Hanson .	3d do.	17, 18
" H. J. Bean .	1st do.	18, 19	" F. D. Hawes .	3d do.	15, 17
" R. E. Bemis .	1st do.	18, 19	" W. E. Johnson	3d do.	16, 18
" F. O. Berry .	1st do.	19, 20	" H. L. King .	3d do.	16, 18
" E. Byrnes .	1st do.	19, 20	" J. G. Lawrence	3d do.	15, 19
" C. E. Cloutman	1st do.	18, 19	" W. McMahon .	3d do.	15, 20
" L. E. Durfee .	1st do.	18, 20	" G. E. Mason .	3d do.	15, 17
" John Gilson .	1st do.	21, 22	" T. E. Noyes .	3d do.	16, 16
" John Glynn .	1st do.	21, 21	" Peter Quinn .	3d do.	17, 17
" C. D. Harris .	1st do.	23, 23	" W. H. Park .	3d do.	15, 16
" O. W. Hough-			" E. S. Ramsdell	3d do.	15, 15
ton .	1st do.	23, 24	" A. B. Tinkham	3d do.	17, 19
" J. A. Keenan .	1st do.	18, 18	" G. F. Temple .	3d do.	17, 19
Capt. S. G. Sweetser	2d do.	18, 19	" Geo. I. Tabbut	3d do.	17, 19
Lt. E. F. West .	2d do.	18, 19	" G. B. Williams	3d do.	16, 17
Sgt. D. E. Magner .	2d do.	18, 19	" E. L. Wright .	3d do.	17, 19
Sgt. A. J. Nowell .	2d do.	18, 20			

COMPANY I, SIXTH REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Sgt. B. A. Battles	S. S.,		45, 50, 47	Priv. H. B. Jackson	2d Class,		19, 18
Priv. W. A. Bennett	S. S.,		46, 48, 47	" John E. Loring	2d do.		18, 18
Capt. F. E. Cutter	S. S.,		50, 49, 48	" J. L. McCarthy	2d do.		20, 19
Priv. George Faber	S. S.,		49, 50, 46	" F. E. McDonald	2d do.		20, 20
Sgt. Thomas L. Gilles	S. S.,		44, 48, 46	" C. J. McGovern	2d do.		18, 18
Priv. G. W. Holden	S. S.,		44, 50, 49	" J. T. McManus	2d do.		19, 19
Corp'l E. L. Miner	S. S.,		46, 49, 47	" F. B. Munroe	2d do.		18, 18
Sgt. J. Bordman, Jr.	1st Class,		49, 60	" T. P. Moylan	2d do.		19, 19
Priv. W. A. Buttrick	1st do.		44, 43	" C. P. G. Pierce	2d do.		21, 21
Lt. Cyrus H. Cook	1st do.		47, 44	" Wm. J. Reed	2d do.		21, 19
Priv. S. Carl Fuller	1st do.		43, 45	" W. G. Rodway	2d do.		18, 18
" George G. King	1st do.		42, 44	" J. O. Smith	2d do.		20, 18
" Jas. W. Nagle	1st do.		45, 44	" Frank R. Vieira	2d do.		18, 18
Corp'l B. F. Smith	1st do.		44, 45	" J. H. Watkins	2d do.		19, 19
Lt. Samuel H. Tuttle	1st do.		42, 43	Corp'l Walter M. Bush	2d do.		21, 19
Priv. R. N. Wheeler	1st do.		47, 48	" C. Andersen	3d do.		17, 15
" Fred J. D. Bam-				" John M. Collins	3d do.		16, 16
forth	2d do.		20, 18	" P. A. Davis	3d do.		18, 16
" Geo. A. Barker	2d do.		21, 20	" E. F. Dempsey	3d do.		16, 16
" H. W. Brigham	2d do.		19, 18	" J. J. Fitzgerald	3d do.		18, 15
Corp'l T. F. Collins	2d do.		19, 18	" G. P. Hagerty	3d do.		18, 15
Priv. Edwin Conant,				" J. W. Hagerty	3d do.		18, 16
2d	2d do.		18, 18	" H. J. Hansen	3d do.		19, 16
Sgt. John W. Cull	2d do.		20, 19	" J. B. Hayes	3d do.		17, 15
Priv. C. C. Davis	2d do.		20, 19	" C. J. Hogan	3d do.		20, 15
Priv. H. C. Derby	2d do.		18, 18	" W. N. How	3d do.		16, 16
Mus. O. Eklof	2d do.		19, 18	" Caspar Jenny	3d do.		16, 16
Priv. F. O. Elmes	2d do.		19, 19	" J. F. Larkin	3d do.		17, 16
" Edgar Goodwin	2d do.		20, 20	" B. C. Loring	3d do.		17, 16
" Jas. A. Grimes	2d do.		18, 18	" Chas. Marqu-			
" T. J. Hanley	2d do.		18, 18	dant, Jr.	3d do.		16, 15
Corp'l Joseph S. Hart	2d do.		20, 19	" Ed. P. Murray	3d do.		16, 16
Priv. H. N. Haynes	2d do.		19, 18	" F. B. Wallace	3d do.		16, 15
Sgt. Ashley P. How	2d do.		18, 18	" Oliver D. Wood	3d do.		18, 17
Corp'l George C. How	2d do.		18, 18				

COMPANY K, SIXTH REGIMENT INFANTRY.

Capt. U. A. Goodell	S. S.,	Requal.	Priv. V. Nelson	2d Class,	21, 21
Lt. H. L. Brousseau	S. S.,	Requal.	" J. Pfeiffer	2d do.	19, 19
Mus. A. Brousseau	S. S.,	Requal.	Cp'l Geo. Cross	3d do.	17, 17
Sgt. J. Q. Goodell	1st Class,	Requal.	Priv. E. Baker	3d do.	16, 15
Sgt. N. E. Putney	1st do.	Requal.	" A. Brousseau	3d do.	16, 20
Lt. A. M. Higgins	2d do.		" T. Burke	3d do.	19, 16
Sgt. P. A. Cross	2d do.		" N. Degrenier	3d do.	16, 18
" J. F. Bradley	2d do.		" E. Gagnon	3d do.	16, 19
" F. C. Monroe	2d do.		" N. Gamache	3d do.	16, 15
Corp'l Earle Vinton	2d do.		" W. Lee	3d do.	15, 18
Corp'l J. K. Egan	2d do.	Requal.	" J. Lapierre	3d do.	18, 17
Priv. J. Anderson	2d do.		" Geo. Maguire	3d do.	15, 15
" H. M. Brockway	2d do.		" E. Martin	3d do.	15, 15
" C. Burke	2d do.		" L. Scarbeau	3d do.	18, 15
" E. Belanger	2d do.		" Geo. Therault	3d do.	18, 15
" F. X. Cassavant	2d do.		" S. Vinton	3d do.	17, 15
" P. Benoit	2d do.		" F. D. Vinton	3d do.	16, 20
" C. A. Clark	2d do.		" C. Weldon	3d do.	16, 16
Corp'l F. B. Nichols	2d do.		" P. Walsh	3d do.	15, 16
Priv. B. W. Felton	2d do.	Requal.	Priv. Geo. Berry	3d do.	-
" W. Hager	2d do.		Priv. W. E. Nichols	3d do.	-
" E. Langley	2d do.				

COMPANY L, SIXTH REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Lt. W. H. Jackson .	1st Class,	45, 48	Priv. J. F. Bostic .	3d Class,	15, 16		
Sgt. G. W. Braxton .	1st do.	46, 48	" C. F. Chandler	3d do.	15, 17		
Sgt. L. A. Dandridge	1st do.	44, 44	" S. O. Dean	3d do.	15, 15		
Corp'l W. E. Carter, Jr.	1st do.	43, 44	" W. P. Ferguson	3d do.	16, 18		
Mus. J. H. Moore .	1st do.	43, 45	" W. B. Gould .	3d do.	15, 17		
Capt. W. J. Williams	2d do.	21, 21	" R. Holmes .	3d do.	15, 16		
Lt. W. H. Turner .	2d do.	18, 19	" J. E. Jordan .	3d do.	17, 19		
Sgt. F. E. Turpin .	2d do.	18, 18	" W. P. Lewis .	3d do.	17, 18		
Sgt. G. H. DeFreace .	2d do.	20, 20	" T. Moseby .	3d do.	15, 16		
Corp'l E. L. Richards	2d do.	20, 21	" C. W. Richard-				
Corp'l J. W. Jones .	2d do.	21, 21	son	3d do.	15, 15		
Priv. T. T. Armstrong	2d do.	19, 20	" N. F. Saunders	3d do.	15, 17		
" O. Dobson .	2d do.	20, 21	" L. A. Stewart .	3d do.	15, 16		
" E. L. Harris .	2d do.	19, 20	" H. H. Williams	3d do.	16, 19		
" A. A. Kiner .	2d do.	18, 18	" R. C. Willson .	3d do.	15, 16		
" W. F. Saunders	2d do.	21, 22	" P. J. Winfield .	3d do.	15, 16		
" F. Thomas .	2d do.	19, 19	" W. H. Saunders	3d do.	15, 17		
" C. J. Williamson	2d do.	19, 20	" R. P. Clike .	3d do.	15, 16		
Corp'l D. A. Roberts	3d do.	15, 16	Corp'l A. T. Lew .	3d do.	-		
Corp'l S. F. Carter .	3d do.	15, 15	Priv. Major Gaines, Jr.	3d do.	-		
Priv. L. C. Armstrong	3d do.	15, 16	" J. C. Johnson .	3d do.	-		
" J. Butler .	3d do.	15, 16	" W. H. Richard-				
" W. Burrs .	3d do.	15, 17	son	3d do.	-		

COMPANY M, SIXTH REGIMENT INFANTRY.

Capt. H. E. Whitney	D. M.,	46, 48, 48	Priv. F. H. Sanborne	2d Class,	21, 21
Priv. H. W. Cheney	1st Class,	43, 42	" E. A. Stevens .	2d do.	19, 20
Sgt. E. Hancock .	1st do.	43, 43	" E. F. Stratton .	2d do.	18, 18
Sgt. C. H. Kimball .	1st do.	43, 44	Sgt. G. E. Thayer .	2d do.	21, 21
Corp'l W. E. Knights	1st do.	45, 45	Priv. R. M. Trask .	2d do.	18, 20
Priv. E. A. Kinsman	1st do.	45, 44	" A. L. Watkins .	2d do.	21, 21
Bug. Joseph Lesor .	1st do.	42, 44	" G. A. Wilcox .	2d do.	19, 19
Priv. J. W. McKay .	1st do.	42, 42	" Roy Arrand .	2d do.	19, 20
Corp'l A. W. Vant .	1st do.	47, 45	" H. A. Bagley .	3d do.	15, 15
Sgt. Benj. S. Allen .	2d do.	21, 22	" C. E. Dewing .	3d do.	16, 16
Priv. C. H. Bartlett .	2d do.	18, 19	" J. Donnelly .	3d do.	15, 17
Lt. H. R. Church .	2d do.	19, 20	Corp'l L. W. French	3d do.	16, 17
Priv. G. T. Clark .	2d do.	18, 19	Priv. A. J. Gardner .	3d do.	15, 15
Corp'l E. M. Crockett	2d do.	18, 19	" Fred Gaskill .	3d do.	15, 19
Priv. Geo. L. Cham-			" F. L. Kimball .	3d do.	16, 17
berlain .	2d do.	19, 19	" A. Legacy .	3d do.	15, 15
" W. W. Connor .	2d do.	21, 21	" J. W. McAloney	3d do.	17, 21
" F. W. Eames .	2d do.	Requal.	" Ernest Nash .	3d do.	17, 18
Lt. Harold E. Fales	2d do.	18, 20	" Q. A. Newhall .	3d do.	15, 16
Corp'l W. H. French	2d do.	Requal.	Sgt. W. A. Thayer .	3d do.	15, 17
Priv. A. W. Miller .	2d do.	20, 20	Priv. B. S. Waterman	3d do.	17, 17
" B. W. Rogers .	2d do.	18, 19	Priv. F. E. Saunders	3d do.	-

FIELD AND STAFF, SECOND BRIGADE.

Capt. A. N. Rantoul .	2d Class,	19, 19	Capt. W. F. Lambert	1st Class,	-
Capt. Gordon Dexter	2d do.	20, 20	" Philip Little .	2d do.	-
Gen. B. F. Peach, Jr.	S. S.,	-	" Elijah George .	1st do.	-
Lt. Col. C. C. Fry .	3d Class,	-	Sgt. W. M. Merrill .	D. M.,	-
Lt. Col. F. C. Hersey	2d do.	-	" Wm. Bryant .	2d Class,	-
Maj. Aaron A. Hall .	S. S.,	-	" F. W. Parker .	3d do.	-
Capt. N. A. Thompson	2d Class,	-	" R. E. Moore .	1st do.	-

SIGNAL CORPS, SECOND BRIGADE.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. W. C. Twombly	S. S.,		44,49,46	Priv. A. P. Brown	2d Class,		-
Lt. H. W. Sprague	1st Class,		-	Sgt. Francis Maloney	3d do.		17, 17
Sgt. W. C. Stevens	2d do.		-	Priv. M. S. Culver	3d do.		17, 18
" C. W. Eaton	2d do.		-	" C. W. Beattie	3d do.		16, 17
" Wm. E. Turner	2d do.		-	" Wm. H. Peyton	3d do.		16, 18

AMBULANCE CORPS, SECOND BRIGADE.

Sgt. A. L. Souther	1st Class,	Requal.	Corp'l W. H. Thompson	3d Class,	Requal.
Lt. A. W. Clark	2d do.	Requal.			

FIELD AND STAFF, FIFTH REGIMENT.

Maj. C. C. Foster	D. M.,	48,48,48	Sgt. G. H. Cutler	3d Class,	17, 17
Lt. R. B. Edes, I. R. P.	D. M.,	50,50,47	Maj. J. H. Whitney	1st do.	-
Col. W. A. Bancroft	S. S.,	Requal.	Lt. F. P. Barnes	1st do.	-
Sgt. E. S. Savory	1st Class,	Requal.	Lt. H. P. Ballard	2d do.	-
Maj. Geo. H. Benyon	D. M.,	Requal.	Sgt. Maj. C. H. Cutler	2d do.	-
Lt. H. L. Chase	2d Class,	Requal.	Ch. Bug E. L. Morse	2d do.	-
P. M. Sgt. C. B. Cabot	2d do	21, 22	Priv. E. L. Wingate	2d do.	-
Lt. A. C. Warren	3d do	15, 15	Sgt. C. A. Charles	3d do.	-

COMPANY A, FIFTH REGIMENT INFANTRY.

Corp'l R. S. Clemons	S. S.,	44,48,47	Corp'l N. R. Davis	3d Class,	15, 16
Mus. Russell Lufkin	1st Class,	-	" R. F. Howard	3d do.	15, 16
Lt. R. W. Bray	2d Class,	19, 18	" John F. Goode	3d do.	16, 17
Sgt. Jas. H. Jacobs	2d do.	18, 19	Priv. W. R. Finlay	3d do.	17, 18
Sgt. Wm. H. Wilson	2d do.	19, 19	" R. J. Frazer	3d do.	15, 16
Priv. Winford Doyle	2d do.	19, 21	" E. Glufing	3d do.	16, 17
" De Melle C.			" B. B. Grant	3d do.	15, 15
Garev	2d do.	19, 18	" Fred S. Howard	3d do.	16, 15
" J. A. Stevens	2d do.	18, 19	" Jas. F. Jolley	3d do.	15, 15
" J. R. Treadwell	2d do.	21, 19	" W. H. Marston	3d do.	15, 16
" G. E. Wilson	2d do.	18, 18	" Chas. O. Shute	3d do.	15, 16
" C. E. Parker	2d do.	-	" D. W. Smith	3d do.	16, 18
Capt. W. W. Stover	2d do.	-	" A. H. Snow	3d do.	15, 15
Sgt. M. E. Smith	2d do.	-	" Fred W. Titus	3d do.	18, 15
Sgt. Fred L. King	2d do.	-	Lt. Wm. S. Tolman	3d do.	-
Priv. Sam'l C. Conner	2d do.	-	Priv. R. E. Harding	3d do.	-
Sgt. E. F. Flanders	3d do.	16, 15	Priv. C. A. Meserve	3d do.	-
Corp'l E. W. Gordon	3d do.	15, 15			

COMPANY B, FIFTH REGIMENT INFANTRY.

Lt. Chas. W. Facey	D. M.,	45,48,46	Priv. R. M. Welch	1st Class,	Requal.
Sgt. F. J. Lounsbury	S. S.,	44,50,46	" D. M. O'Connor	1st do.	43, 42
Priv. Louis Lawrence	1st Class,	-	Capt. E. E. Mason	1st do.	Requal.
Priv. A. A. Thomas	1st do.	-	Sgt. P. J. McNamara	2d do.	21, 18
Capt. R. W. Sutton	1st do.	Requal.	Sgt. Charles J. Kirby	2d do.	19, 19
Lt. Wm. S. Phillips	1st do.	Requal.	Corp'l R. J. Powers	2d do.	20, 18
Sgt. Charles S. Ryan	1st do.	Requal.	" Wm. Connell	2d do.	20, 18
Priv. R. H. Russell	1st do.	Requal.	" F. J. Brennan	2d do.	20, 20

COMPANY B, FIFTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. N. W. Campbell		2d Class,	18, 18	Priv. R. R. Lowe		3d Class,	15, 15
" T. A. Hillery		2d do.	20, 18	" J. J. McSweeney		3d do.	18, 15
" W. J. MacKay		2d do.	Requal.	" R. McFadden		3d do.	20, 16
" J. G. McCann		2d do.	19, 19	" Jas. J. O'Brien		3d do.	17, 15
" J. A. Myers		2d do.	20, 19	" R. D. Worcester		3d do.	16, 15
" R. T. Owens		2d do.	19, 19	" P. E. Moylan		3d do.	20, 17
" T. F. Sullivan		2d do.	19, 19	" L. J. McDonald		3d do.	16, 16
" F. J. White		2d do.	20, 18	" A. McKay		3d do.	19, 17
" W. E. Weber		2d do.	19, 19	Corp'l T. E. Daykin		3d do.	-
Sgt. E. C. Stickney		2d do.	-	" C. J. Kindler		3d do.	-
" Fred M. Mason		2d do.	-	" T. H. McGuire		3d do.	-
" Edward Broders		2d do.	-	" W. J. Thompson		3d do.	-
Mus. B. C. McKenna		2d do.	-	Priv. A. E. Artesani		3d do.	-
Priv. M. L. Bosworth		2d do.	-	" E. P. Callahan		3d do.	-
" John H. Dolan		2d do.	-	" D. I. Clifford		3d do.	-
" Louis J. Hewitt		2d do.	-	" J. J. Donovan		3d do.	-
" A. A. Hickey		3d do.	-	" G. F. Griggs		3d do.	-
" W. Dumbriksy		3d do.	15, 15	" Archie Hewitt		3d do.	-
" W. A. Harvey		3d do.	17, 17	" H. J. Stackhouse		3d do.	-
" M. H. Henry		3d do.	16, 15	" W. J. Tivnan		3d do.	-
" J. P. Hackett		3d do.	19, 15				

COMPANY C, FIFTH REGIMENT INFANTRY.

Lt. J. A. Scott	S. S.,	46, 49, 47	Priv. T. J. Ducey	3d Class,	15, 17
Priv. J. B. Dugan	1st Class,	42, 42	" J. F. Farnum	3d do.	16, 17
Priv. P. E. Miles	1st do.	42, 42	" F. W. Godsoe	3d do.	17, 17
Capt. D. C. Scott	1st do.	-	" J. J. Haley	3d do.	16, 17
Sgt. J. Masterton	2d do.	-	" P. J. Kelley	3d do.	15, 16
Priv. E. T. Madden	2d do.	-	" J. H. Lane	3d do.	16, 16
Priv. G. W. Ambrose	2d do.	18, 18	" J. J. Lynch	3d do.	15, 20
Corp'l F. A. Barrows	2d do.	Requal.	Corp'l A. L. Moriarty	3d do.	17, 19
Priv. H. E. Billings	2d do.	20, 21	Priv. W. S. O'Brien	3d do.	17, 18
Priv. T. Burnett	2d do.	22, 22	" J. F. Powers	3d do.	15, 20
Sgt. W. H. Burns	2d do.	Requal.	" W. F. Powers	3d do.	16, 19
Sgt. C. F. Carling	2d do.	21, 21	" J. E. Ryan	3d do.	16, 17
Priv. H. T. O'Brien	2d do.	19, 19	" Wm. Scott	3d do.	17, 18
Priv. J. F. Ryan	2d do.	19, 20	" Winfield Scott	3d do.	15, 17
Corp'l A. E. Trudo	2d do.	19, 20	" J. W. Sullivan	3d do.	15, 15
Corp'l A. E. Armstrong	3d do.	17, 18	" M. F. Turner	3d do.	15, 17
Sgt. E. F. Berry	3d do.	15, 17	" G. H. Wascott	3d do.	17, 18
Priv. J. J. Brady	3d do.	16, 18	Lt. R. S. Cordingley	3d do.	-
" J. A. Dalton	3d do.	15, 18	Priv. T. F. Cronin	3d do.	-
			Sgt. R. W. Daley	3d do.	-

COMPANY D, FIFTH REGIMENT INFANTRY.

Sgt. W. F. Gilbride	1st Class,	42, 44	Corp'l G. W. Spaulding	2d Class,	18, 19
Priv. F. W. Holmes	1st do.	43, 44	Priv. H. G. Sampson	2d do.	22, 22
Priv. G. L. Mariner	1st do.	42, 44	" C. E. Burt	3d do.	15, 19
Capt. W. C. Butler	2d do.	19, 19	" J. Croghan	3d do.	17, 16
Sgt. F. A. Burgess	2d do.	21, 20	" J. Donovan	3d do.	15, 16
Priv. E. A. McManus	2d do.	18, 19	" C. R. Duten	3d do.	15, 17
Sgt. C. E. Nauman	2d do.	19, 20	" J. A. Gloyd	3d do.	15, 15
Sgt. G. H. Phillips	2d do.	21, 19	" J. E. Hosmer	3d do.	15, 21
Corp'l R. S. Phillips	2d do.	20, 21	" A. A. Hatton	3d do.	16, 18
Corp'l T. M. Perkins	2d do.	19, 20	" E. E. Nickerson	3d do.	15, 16
Priv. Irvin Parker	2d do.	19, 19			

COMPANY D, FIFTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. W. Picard		3d Class,	16, 16	Priv. D. G. Brown		3d Class,	—
Corp'l C. H. Robbins		3d do.	17, 17	" C. E. Colprit		3d do.	—
Corp'l P. M. Robichau		3d do.	16, 19	" E. Gulliver		3d do.	—
Priv. J. F. Raymond		3d do.	16, 16	" R. J. Procter		3d do.	—
" Chas. F. Faty		3d do.	17, 15	" W. E. Toyier		3d do.	—
" G. H. Fox		3d do.	15, 15				

COMPANY E, FIFTH REGIMENT INFANTRY.

Capt. T. C. Henderson	1st Class,	45, 45	Priv. J. J. Carleton	3d Class,	15, 15
Lt. J. U. Wescott	1st do.	43, 43	" J. J. Conway	3d do.	16, 15
Sgt. G. W. England	1st do.	45, 47	" R. J. Dinsmon	3d do.	18, 17
Sgt. G. H. St. Dennis	1st do.	43, 45	" W. H. Dinsmon	3d do.	15, 17
Priv. A. D. Haskell	1st do.	43, 43	" G. E. Knight	3d do.	16, 16
Priv. J. J. Mahoney	1st do.	43, 43	" J. O. Lane	3d do.	16, 16
Lt. G. H. Lowe	1st do.	43, 44	" W. J. Leonard	3d do.	16, 16
Sgt. O. J. C. Nellson	2d do.	19, 19	" G. T. Lynn	3d do.	16, 16
" A. T. Jones	2d do.	18, 18	" J. W. Maher	3d do.	16, 16
" C. H. Hagggett	2d do.	20, 20	" J. H. Maine	3d do.	16, 16
Corp'l E. A. White	2d do.	18, 20	" C. W. McDonald	3d do.	17, 16
Mus. G. J. Cutler	2d do.	19, 18	" G. A. Mills	3d do.	16, 15
Priv. E. R. Dearborn	2d do.	22, 21	" P. P. Murphy	3d do.	17, 17
" W. H. Geyer	2d do.	19, 18	" A. E. Prowse	3d do.	20, 17
" C. W. Jackson	2d do.	19, 19	" H. J. F. Rehm	3d do.	15, 15
" A. W. McLean	2d do.	19, 20	" T. P. Riley	3d do.	17, 17
" A. J. Sherriff	2d do.	18, 18	" G. F. Simpson	3d do.	15, 15
" W. F. Vincient	2d do.	19, 18	" F. O. Waterman	3d do.	17, 15
" T. P. Byron	2d do.	—	" W. J. Wilson	3d do.	16, 16
" F. D. Furubush	2d do.	—	" W. E. Newton	3d do.	16, 15
Corp'l C. W. B. Fuller	3d do.	16, 17	" C. E. Lauriat	3d do.	16, 19
" J. B. A. Buffum	3d do.	17, 15	Corp'l E. P. Byrne	3d do.	—
" W. F. Robb	3d do.	19, 15	Priv. G. F. Buck	3d do.	—
" C. H. Lewis	3d do.	18, 17	" J. C. Keenan	3d do.	—
Priv. G. E. Barry	3d do.	16, 15	" C. F. Lennis	3d do.	—
" B. W. Bryon	3d do.	18, 16	" J. P. McArdle	3d do.	—

COMPANY F, FIFTH REGIMENT INFANTRY.

Lt. C. E. Hamilton	S. S.,	48, 48, 46	Priv. H. E. Conant	2d Class,	18, 20
Sgt. W. C. Twombly	S. S.,	Requal.	" M. J. Connors	2d do.	19, 19
Sgt. E. H. Bull	S. S.,	44, 49, 47	" G. W. D. Emerson	2d do.	18, 19
Sgt. J. F. Williams	S. S.,	48, 48, 47	" A. C. Foster	2d do.	18, 21
Corp'l S. A. Searle	S. S.,	44, 48, 46	" J. F. Lamson	2d do.	21, 20
Priv. H. T. A. Butler	S. S.,	45, 49, 47	" A. W. Newcomb	2d do.	20, 20
Lt. H. M. Gragg	1st Class,	Requal.	" W. W. Powden	2d do.	20, 20
Sgt. J. N. Berry	1st do.	43, 45	" C. C. Preble	2d do.	19, 20
Corp'l H. A. Perkins	1st do.	43, 47	" G. C. Preble	2d do.	20, 21
Priv. E. Baptiste	1st do.	44, 46	" J. W. Tozier	2d do.	20, 20
" E. H. Harvey	1st do.	46, 45	" W. E. Whitney	2d do.	18, 21
" W. B. Jackson	1st do.	42, 42	Corp'l W. J. Benton	3d do.	17, 18
Capt. M. D. Clement	2d do.	20, 21	Corp'l E. L. Harvey	3d do.	17, 17
Lt. W. E. Whiting	2d do.	21, 22	Priv. R. E. Bullard	3d do.	15, 19
Sgt. C. A. Shafer	2d do.	18, 20	Priv. D. W. Burnett	3d do.	15, 19
Sgt. H. F. Smith	2d do.	21, 22	" W. B. Chaffin	3d do.	17, 17
Corp'l L. A. Gindrat	2d do.	19, 22	" W. S. Cooney	3d do.	16, 16
Corp'l J. E. Kavanagh	2d do.	19, 20	" J. F. Donohoe	3d do.	17, 19
Priv. W. H. Anthony	2d do.	20, 21	" H. R. Fredericks	3d do.	16, 19
Priv. J. J. Collins	2d do.	18, 18			

COMPANY F, FIFTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. F. G. Hews		3d Class,	15, 16	Priv. J. C. Purcill		3d Class,	16, 18
" G. W. Kimball		3d do.	15, 15	" H. L. Willey		3d do.	15, 18
" C. N. Maynard		3d do.	16, 18	" A. D. Wright		3d do.	15, 17
" W. T. McCann		3d do.	17, 16				

COMPANY G, FIFTH REGIMENT INFANTRY.

Priv. J. L. Fowl	1st Class,	49, 50	Priv. F. W. Hoskins	2d Class,	20, 20
" G. H. Nason	1st do.	48, 46	" A. A. Hutchinson	2d do	23, 24
" S. G. Smith	1st do.	Requal.	" M. D. Hamilton	2d do	21, 21
" F. E. Kempton	1st do.	Requal.	" E. J. Kolb	2d do	18, 19
Sgt. G. Durward	1st do.	20, 20	" J. W. McCarthy	2d do.	20, 20
Capt. J. C. Larock	2d do.	18, 18	" W. C. Mann	2d do.	19, 20
Lt. W. W. Wade	2d do.	20, 20	" Geo. F. Murdock	2d do.	18, 19
Sgt. G. S. Cutter	2d do.	22, 19	" B. F. Stevens	2d do.	19, 21
" F. E. Stowers	2d do.	22, 23	" Geo. Irving	2d do.	18, 18
" T. McCarthy	2d do.	18, 19	" W. H. Whitten	2d do.	19, 20
" C. F. Hazeltine	2d do.	22, 23	Lt. E. F. Wyer	3d do.	15, 17
Corp'l L. W. Pattin	2d do.	20, 20	Sgt. W. A. Russell	3d do.	17, 17
" W. M. Dearborn	2d do.	20, 21	Corp'l I. H. Lytton	3d do.	17, 15
" G. A. Barrett	2d do.	19, 20	Priv. J. Tighe	3d do.	17, 17
" O. M. Wade, Jr.	2d do.	18, 20	Priv. J. J. Cullen	3d do.	15, 15
Priv. W. S. Fraser	2d do.				

COMPANY H, FIFTH REGIMENT INFANTRY.

Capt. Francis Meredith, Jr.	S. S.,	45, 49, 47	Priv. C. L. McIntyre	2d Class,	21, 20
Corp'l A. A. F Lindberg	S. S.,	50, 49, 48	" H. W. Margeson	2d do.	21, 20
1st Sgt J. C. Meredith	1st Class,	43, 43	" J. W. O'Neill	2d do.	18, 18
Sgt. A. H. Jones	1st do.	42, 43	" R. W. Roland	2d do.	18, 20
Priv. H. A. Gilson	1st do.	42, 42	" G. W. Tolman	2d do.	20, 21
Lt. Fred McDonald	1st do.	-	" J. P. Ward	2d do.	18, 18
Priv. R. J. Cole	2d do.	-	" F. A. Whitney	2d do.	18, 19
Priv. V. E. Gilson	2d do.	-	Corp'l W. Foley	3d do.	15, 17
Bug. F. Ruppertsberg	2d do.	-	Priv. J. J. Connors	3d do.	16, 15
Lt. H. Y. Gilson	2d do.	20, 21	" E. A. Church	3d do.	15, 17
Sgt. H. L. Johnson	2d do.	20, 19	" T. F. Lynch	3d do.	15, 15
" T. M. Roland	2d do.	19, 18	" J. F. McCarthy	3d do.	16, 15
" C. P. Shattuck	2d do.	Requal.	" S. E. O'Brien	3d do.	17, 15
Corp'l W. H. Benson	2d do.	20, 21	" C. A. Rhode	3d do.	16, 16
" A. W. Duncan	2d do.	20, 18	" W. M. Sanborn, Jr.	3d do.	15, 15
" W. B. Walker	2d do.	20, 21	" H. E. Kenney	3d do.	-
Priv. M. J. Bourke	2d do.	18, 19	" J. T. McGinley	3d do.	-
" A. A. Davis, Jr.	2d do.	18, 19	" J. W. Morse	3d do.	-
" J. J. McIntire	2d do.	18, 19	" J. J. Owens	3d do.	-
" G. J. McDonald	2d do.	18, 20	" P. Sullivan	3d do.	-

COMPANY I, FIFTH REGIMENT INFANTRY.

Capt. W. H. Goff	1st Class,	43, 45	Priv. A. G. Fuller	1st Class,	44, 41
Lt. H. A. Clark	1st do.	43, 43	" F. E. Goff	1st do.	Requal.
Sgt. W. T. Mason	1st do.	43, 43	" C. E. Searle	1st do.	46, 45
Sgt. C. A. Richardson	1st do.	46, 47	" F. C. Stowe	1st do.	45, 43
Cp'l F. C. Wilmarth	1st do.	42, 42	Lt. G. H. Sykes	2d do.	18, 19

COMPANY I, FIFTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Sgt. E. H. Briggs		2d Class,	19, 20	Priv. F. S. Whaley	2d Class,	19, 20	
" F. C. Grey		2d do.	18, 21	" W. F. Wright	2d do.	19, 18	
" D. L. Lon		2d do.	19, 18	" C. A. White	2d do.	19, 18	
Cpl A. H. Carpenter		2d do.	19, 18	" C. F. Aldridge	3d do.	17, 18	
" F. W. Northup		2d do.	18, 19	" S. G. Aull	3d do.	18, 21	
" F. B. Stanton		2d do.	18, 18	" G. F. Ball	3d do.	16, 18	
" O. F. Hicks		2d do.	21, 22	" C. E. Boyd	3d do.	16, 17	
" W. S. Stowe		2d do.	18, 19	" F. C. Becker	3d do.	15, 16	
" J. H. Williams		2d do.	18, 20	" W. H. Drake	3d do.	15, 16	
Bug. R. F. Lincoln		2d do.	18, 19	" W. F. Douglass	3d do.	18, 18	
Priv. T. W. Cash		2d do.	20, 20	" G. E. Cruff	3d do.	16, 17	
" F. H. Cornell		2d do.	Requal	" G. C. Estee	3d do.	17, 19	
" W. W. Cooke		2d do.	23, 24	" H. W. Gardner	3d do.	16, 15	
" C. F. Drake		2d do.	Requal.	" J. W. Hayden	3d do.	17, 15	
" A. C. Eggleston		2d do.	20, 22	" F. E. King	3d do.	16, 17	
" A. E. French		2d do.	18, 19	" W. F. Keenan	3d do.	18, 20	
" E. L. Hall		2d do.	21, 21	" G. F. Lee	3d do.	17, 19	
" O. B. Hall		2d do.	18, 21	" A. J. Lehighfeld	3d do.	15, 16	
" James Hall		2d do.	18, 19	" F. J. Miller	3d do.	17, 17	
" W. O. Hall		2d do.	18, 18	" I. F. Mott	3d do.	16, 16	
" R. M. Holley		2d do.	20, 20	" J. H. Noll	3d do.	16, 16	
" H. E. Mathewson		2d do.	18, 18	" J. A. Peers	3d do.	17, 18	
" L. C. Martin		2d do.	19, 20	" F. W. Sears	3d do.	15, 16	
" J. W. Pickering		2d do.	19, 20	" E. J. Smith	3d do.	18, 17	
" J. M. Rushton		2d do.	21, 21	" C. W. Sweet	3d do.	17, 19	
" F. H. Spooner		2d do.	19, 19	" F. A. Sweet	3d do.	17, 15	
" T. H. Stevenson		2d do.	18, 18	" B. A. Spencer	3d do.	15, 17	
" E. W. Thurber		2d do.	21, 20	" F. H. Swift	3d do.	15, 15	
				" H. N. Sperry	3d do.	15, 15	

COMPANY K, FIFTH REGIMENT INFANTRY.

Capt. W. E. Morrison	2d Class,	19, 20	Priv. F. L. Bent	3d Class,	16, 16
Lt. H. L. Kincaide	2d do.	18, 18	" C. F. Cavanagh	3d do.	16, 18
Lt. F. N. Benson	2d do.	18, 19	" T. B. Crane	3d do.	16, 17
Sgt. E. W. Adams	2d do.	19, 21	" F. N. Newcomb	3d do.	15, 17
" M. A. Colbert	2d do.	18, 18	" B. Pinkham	3d do.	17, 17
" W. P. Cahill	2d do.	22, 22	" T. C. Smith	3d do.	15, 16
Corp'l W. H. Whitney	2d do.	20, 20	" O. F. Smith	3d do.	15, 15
Mus. P. E. Quill	2d do.	19, 19	" D. G. Smith	3d do.	15, 15
Corp'l J. R. McGrath	2d do.	18, 19	" C. S. Whiting	3d do.	16, 19
Priv. E. B. Arnold	2d do.	18, 19	Corp'l H. A. Linton	3d do.	-
" J. T. Gallagher	2d do.	18, 21	Corp'l Jas. F. Mohan	3d do.	-
" I. Lowe	2d do.	20, 18	Priv. H. F. Barrett	3d do.	-
" W. C. Moses	2d do.	18, 18	" F. Billings	3d do.	-
" John Nelson	2d do.	18, 19	" Jas. Stancomb	3d do.	-
Sgt. C. F. Spear	2d do.	-			

COMPANY L, FIFTH REGIMENT INFANTRY.

Corp'l L. E. Felton	S. S.,	44, 48, 47	Priv. C. K. Daniels	2d Class,	21, 22
Corp'l A. G. McKinley	S. S.,	48, 48, 47	" Wm. Dowd	2d do.	18, 18
Sgt. J. C. Allis	1st Class,	48, 43	" G. E. Falardeau	2d do.	18, 18
Priv. J. V. Lawler	1st do.	44, 43	" John Goddin	2d do.	21, 23
" I. R. Apt	2d do.	22, 24	" C. T. Hall	2d do.	18, 18
" Robert Booth	2d do.	20, 21	" J. C. Hills	2d do.	19, 19
Sgt. H. A. Carter	2d do.	22, 22	Capt. E. E. Locke	2d do.	21, 22
Sgt. E. A. Coburn	2d do.	20, 20	Corp'l F. W. Lynde	2d do.	20, 21
Lt. F. F. Cutting	2d do.	18, 18	Priv. J. McCarthy	2d do.	21, 21

COMPANY L, FIFTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. W. Prindall, Jr.		2d Class,	18, 19	Priv. H. I. Dyer		3d Class,	15, 15
" L. C. Rockhill.		2d do.	18, 18	" E. J. Folsy		3d do.	15, 16
" John Spraker.		2d do.	22, 24	" O. J. House		3d do.	15, 16
" E. L. Sweetser		2d do.	19, 19	Lt. J. H. Mann		3d do.	15, 17
" H. E. Jodvin		2d do.	-	Priv. E. S. Mayo		3d do.	15, 16
Sgt. C. A. Perkins		2d do.	-	" John Reid		3d do.	15, 20
Priv. C. H. Smith		2d do.	-	" F. Sherburne		3d do.	17, 15
Priv. C. Woodworth		2d do.	18, 21	" F. C. Streck		3d do.	15, 16
Corp'l C. B. Rea		2d do.	Requal.	" E. W. Young		3d do.	16, 17
Priv. L. O. Bishop		3d do.	16, 18	Corp'l F. L. Dodge		3d do.	-
" W. E. Brown		3d do.	15, 16	Mus. Chas. Fuller		3d do.	-
" C. E. Black		3d do.	15, 17	Priv. W. R. Slocomb		3d do.	-
" W. F. Churchill		3d do.	16, 18	Sgt. W. S. Sweetser		3d do.	-
" H. T. Callamore		3d do.	16, 17	Priv. Geo. H. Wood		3d do.	-

COMPANY M, FIFTH REGIMENT INFANTRY.

Priv. G. A. Blvth	1st Class,	43, 43	Priv. L. L. Adams	2d Class,	-
Corp'l C. H. Groves	1st do.	42, 45	" M. H. Doyle	2d do.	-
Lt P. E. Graves	1st do.	43, 45	" C. A. Holmes	2d do.	-
Priv. R. Baker	2d do.	19, 20	Corp'l A. Francis	3d do.	16, 16
Corp'l E. S. Chase	2d do.	18, 19	Priv. H. P. Fairbanks	3d do.	15, 16
Priv. B. A. Graves	2d do.	21, 21	" H. F. Gill	3d do.	16, 16
" W. A. Hastings	2d do.	19, 21	" B. R. Grant	3d do.	15, 15
" F. W. Hale	2d do.	18, 18	" J. L. Lovett	3d do.	15, 18
" P. E. Kerrigan	2d do.	19, 21	" Thos. F. Lynch	3d do.	16, 17
" W. Lucier	2d do.	19, 19	Sgt. H. C. Moore	3d do.	17, 17
Capt. A. M. Mossman	2d do.	18, 21	Lt. C. F. Reed	3d do.	17, 18
Sgt. W. H. McCarthy	2d do.	18, 20	Priv. F. S. Rowell	3d do.	17, 18
Priv. F. E. Ordway	2d do.	19, 20	" H. C. Tucker	3d do.	16, 18
Priv. L. E. Ordway	2d do.	18, 18	" Thos. Travers	3d do.	15, 16
Corp'l H. C. Skinner	2d do.	18, 19	" B. N. Wheeler	3d do.	15, 17
Lt. W. H. Small	2d do.	19, 18	" W. J. Collette	3d do.	-
Mus. F. Taylor	2d do.	19, 20	" C. W. Hutch- inson	3d do.	-
Sgt. C. P. Tucker	2d do.	19, 19	Sgt. M. M. Lyons	3d do.	-
Lt. F. H. Wood	2d do.	18, 19	Priv. F. E. McConnell	3d do.	-
Sgt. R. W. Wilkins	2d do.	19, 19	Priv. F. P. Martin	3d do.	-
Priv. H. Patten	2d do.	-			
Priv. D. Sullivan	2d do.	-			

FIELD AND STAFF, EIGHTH REGIMENT INFANTRY.

Lt. Charles F. Cook	D. M.	49, 49, 46	Mus. Chas. E. Ryan	2d Class,	18, 19
Lt. John G. Warner	1st Class,	Requal.	Drum Major W. H. Thomas	2d do.	-
Col. Chas. L. Dodge	2d do.	18, 19	Mus. W. J. Brennan	2d do.	-
Maj. W. M. Ward	2d do.	18, 18	Mus. T. W. Laidlaw	2d do.	-
" W. A. Paw, Jr.	2d do.	18, 18	Lt. N. Y. Brintnall	3d do.	16, 17
" C. W. Galloupe	2d do.	19, 20	Mus. P. A. Clobecy	3d do.	16, 17
Lt. George L. Weil	2d do.	18, 19	Mus. Henry L. Day	3d do.	16, 18
Q. M. Sgt. R. L. Morey	2d do.	Requal.	Sgt. Geo. G. Bailey	3d do.	-
P. M. Sgt. C. E. Max- well	2d do.	18, 18	Mus. J. H. Clobecy	3d do.	-
Mus. Jas. J. Noonan	2d do.	18, 18			

COMPANY A, EIGHTH REGIMENT INFANTRY.

Lt. E. G. Moody	1st Class,	42, 42	Sgt. J. W. Pearson	2d Class,	19, 22
Sgt. W. F. Flanders	2d do.	18, 18	Corp'l E. O'Berne	2d do.	18, 18

COMPANY A, EIGHTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv.	F. W. Jacques	2d Class,	21, 20	Priv.	C. E. Follett	3d Class,	15, 19
"	J. Lawrence	2d do.	18, 20	"	W. G. Goyette	3d do.	16, 15
"	C. A. Fulcifer	2d do.	18, 18	"	T. Hersey	3d do.	20, 15
"	J. H. Reddy	2d do.	18, 19	"	W. H. Lattimes	3d do.	15, 15
Capt.	J. H. Gilman	2d do.	-	"	J. Rogers	3d do.	15, 17
Sgt.	C. Danforth	3d do.	16, 16	"	F. M. Sturgeon	3d do.	19, 15
Corp'l	E. J. Snow	3d do.	15, 15	"	E. B. Thompson	3d do.	15, 16
Priv.	W. H. Brasby	3d do.	17, 17	Sgt.	A. S. Merrill	3d do.	-
"	C. E. Coffin	3d do.	16, 15	Priv.	A. Carlew	3d do.	-
"	J. Dalton	3d do.	15, 16				

COMPANY B, EIGHTH REGIMENT INFANTRY.

Capt.	E. W. M. Bailey	S. S.,	45, 48, 46	Priv.	H. M. Miller	2d Class,	19, 19
Lt.	J. E. Higgins	S. S.,	44, 48, 47	"	J. L. Preble	2d do.	18, 20
Lt.	A. E. Tuttle	S. S.,	44, 48, 46	"	J. Sweeney	2d do.	19, 19
Sgt.	J. F. Higgins	S. S.,	45, 48, 46	"	A. Trotsey	2d do.	19, 21
"	M. S. Higgins	S. S.,	47, 50, 46	Corp'l	H. G. Sweetser	3d do.	18, 17
"	O. M. Lucy	S. S.,	44, 48, 46	Mus.	D. N. Evans	3d do.	16, 15
"	A. S. Hinckley	S. S.,	44, 48, 46	Priv.	L. E. Ayer	3d do.	15, 15
"	A. W. Stevens	S. S.,	44, 49, 47	"	G. W. Beers	3d do.	18, 15
Corp'l	F. M. Connor	S. S.,	44, 49, 47	"	J. H. Bardsley	3d do.	18, 15
Priv.	J. Cross	S. S.,	45, 48, 46	"	S. J. Bardsley	3d do.	17, 15
Lt.	W. E. Connor	1st Class,	Requal.	"	P. H. Casey	3d do.	16, 18
Corp'l	T. P. Higgins	1st do.	42, 43	"	J. J. Doran	3d do.	15, 16
Priv.	E. A. Brown	1st do.	43, 42	"	P. J. Donohue	3d do.	15, 17
"	J. Granigan	1st do.	43, 43	"	J. Farrell	3d do.	15, 16
"	G. A. Merrill	1st do.	42, 46	"	F. Fernald	3d do.	17, 16
"	F. W. Scribner	1st do.	42, 43	"	P. J. Greeley	3d do.	15, 15
Corp'l	F. M. Sweet	2d do.	19, 20	"	J. A. Grogan	3d do.	15, 16
Corp'l	E. F. Quimby	2d do.	18, 20	"	G. E. Langmaid	3d do.	16, 17
Priv.	N. Dufault	2d do.	18, 19	"	C. Lee	3d do.	16, 16
"	J. D. Fiske	2d do.	18, 21	"	D. B. Mahoney	3d do.	16, 18
"	Wm. Gallagher	2d do.	18, 18	"	J. Maloney	3d do.	15, 18
"	E. B. Gillisple	2d do.	20, 21	"	G. E. Roche	3d do.	16, 16
"	H. C. Kincald	2d do.	20, 20	"	P. Stevens	3d do.	19, 16
"	R. E. Lardner	2d do.	18, 18	"	F. W. Taylor	3d do.	19, 15
"	W. A. Mathews	2d do.	19, 20	"	J. Timmins	3d do.	16, 16
"	J. J. Melia	2d do.	19, 21	"	J. Dwyer	3d do.	-

COMPANY C, EIGHTH REGIMENT INFANTRY.

Capt.	F. A. Graves	2d Class,	20, 23	Priv.	F. M. Shattuck	3d Class,	15, 17
Sgt.	Benj. Mitchell	2d do.	19, 18	"	M. V. Dooley	3d do.	18, 16
Sgt.	F. L. Robbins	2d do.	18, 21	"	M. F. Carroll	3d do.	16, 18
Corp'l	J. J. Glass, Jr.	2d do.	18, 19	"	A. N. Brown	3d do.	17, 16
Corp'l	W. W. Shean	2d do.	19, 20	"	R. B. Millett	3d do.	20, 16
Priv.	C. S. Robbins	2d do.	19, 18	"	F. A. Butman	3d do.	15, 15
"	Frank Glass	2d do.	18, 18	"	C. F. Hart	3d do.	16, 15
"	J. T. Sandwiche	2d do.	19, 19	Sgt.	H. P. Collyer	3d do.	-
"	F. E. Morse	2d do.	19, 20	Corp'l	Winslow Hardy	3d do.	-
Capt.	W. B. Potter	2d do.	19, 20	Priv.	F. H. Osgood	3d do.	-
Lt.	C. A. Slee	2d do.	-	Priv.	H. Griffiths	3d do.	-
Sgt.	B. G. Melvin	3d do.	17, 15	Lt.	C. H. Snow	3d do.	-

COMPANY D, EIGHTH REGIMENT INFANTRY.

Lt.	C. T. Hilliker	S. S.,	47, 50, 46	Sgt.	I. W. Chase	S. S.,	47, 49, 46
Sgt.	A. H. Slason	S. S.,	Requal.	Sgt.	T. J. Cobey	S. S.,	47, 48, 47

COMPANY D, EIGHTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Capt. F. Murray		1st Class,	44, 50	Priv. J. W. Piper	2d Class,	21, 21	
Sergt. F. H. Downey		1st do.	Requal.	Corp'l W. E. Schmidt	2d do.	20, 21	
Corp'l J. B. Perkins		1st do.	44, 44	Priv. G. A. Smith	2d do.	18, 19	
Corp'l E. I. Piper		1st do.	44, 44	" L. Waite	2d do.	18, 20	
Priv. F. B. Phinney		1st do.	42, 42	" E. L. Varnam	2d do.	18, 18	
Lt. H. B. Goodridge		2d do.	20, 20	" A. P. Maillet	2d do.	19, 19	
Sgt. T. C. Crowley		2d do.	Requal.	" B. C. Canfield	3d do.	16, 16	
Mus. L. A. Downey		2d do.	Requal.	" G. A. Carswell	3d do.	16, 16	
Priv. W. F. Brown		2d do.	18, 20	" A. B. Hathaway	3d do.	16, 18	
" W. W. Cann		2d do.	18, 19	" C. A. Rich	3d do.	16, 16	
" A. L. Conant		2d do.	19, 19	" T. H. Tobin	3d do.	15, 15	
Corp'l J. B. Gallagher		2d do.	18, 19	" J. E. Perkins	3d do.	16, 16	
Priv. J. T. Hinds		2d do.	18, 18	" F. H. Ober	3d do.	15, 15	
Priv. A. Josslin		2d do.	18, 18	Corp'l G. A. Wood	3d do.	-	
Corp'l J. P. Linehan		2d do.	18, 19				

COMPANY E, EIGHTH REGIMENT INFANTRY.

Lt. J. W. Preston	S. S.,	44, 48, 46	Priv. R. E. Simpson	2d Class,	18, 19
Corp'l J. P. Noble	S. S.,	44, 48, 46	" E. L. Snell	2d do.	19, 21
Mus. Almon Gray	S. S.,	46, 48, 47	" J. F. Standly	2d do.	18, 19
Priv. A. E. Cromble	S. S.,	48, 48, 48	" C. F. Butman	2d do.	-
Lt. H. A. Moulton	1st Class,	42, 42	Sgt. Geo. E. Cross	3d do.	15, 16
Sgt. F. H. Jones	1st do.	42, 46	Priv. S. A. Adams	3d do.	16, 17
Corp'l H. R. Nelson	1st do.	43, 44	" W. H. Clark	3d do.	15, 16
Priv. A. H. Kelly	1st do.	42, 43	" W. W. Gardner	3d do.	16, 17
" David Rogers	1st do.	43, 44	" E. G. Glines	3d do.	15, 15
" John Sands	1st do.	Requal.	" D. A. Goodwin	3d do.	16, 17
" E. A. Standly	1st do.	42, 44	" G. E. Hathaway	3d do.	16, 17
Capt. Wm. Stopford	2d do.	20, 22	" A. W. Herrick	3d do.	15, 16
Corp'l W. B. Ober	2d do.	20, 21	" W. H. Caverly	3d do.	-
Priv. Geo. W. Davis	2d do.	18, 18	" F. S. Morse	3d do.	-
" H. O. Gray	2d do.	18, 19	Corp'l G. W. Preston	3d do.	-
" W. H. Hathaway	2d do.	18, 21	Priv. F. H. Low	3d do.	-
			" R. P. Williams	3d do.	-

COMPANY F, EIGHTH REGIMENT INFANTRY.

Sgt. J. P. Hickey	S. S.,	-	Priv. J. W. Connell	2d Class,	19, 20
Priv. Benj. Dimock	D. M.,	-	" H. E. Clemons	2d do.	20, 20
Sgt. M. F. Webster	1st Class,	43, 43	" A. W. Claridge	2d do.	18, 18
Sgt. E. P. Cogswell	1st do.	42, 42	" M. C. Dumore	2d do.	18, 20
Corp'l H. S. Baxter	1st do.	45, 44	" C. N. Draw	2d do.	20, 20
Corp'l C. S. Kenyon	1st do.	43, 43	" A. B. Frost	2d do.	18, 19
Priv. J. A. Barnstead	1st do.	43, 44	" F. A. Haynes	2d do.	20, 21
" D. A. Evans	1st do.	44, 43	" A. H. Herrick	2d do.	18, 19
" Geo. P. Smith	1st do.	44, 46	" D. E. Jewell	2d do.	19, 19
Capt. W. C. Dow	2d do.	18, 22	" J. E. King	2d do.	18, 19
Lt. W. U. Mace	2d do.	21, 21	" Alfred Law	2d do.	18, 19
Lt. T. F. Crowley	2d do.	18, 19	" A. H. Quimby	2d do.	20, 21
Sgt. D. F. Whittier	2d do.	18, 19	" J. W. Smith	2d do.	19, 19
Sgt. W. H. Floyd	2d do.	19, 19	" E. G. Siebel	2d do.	18, 18
Corp'l F. W. Higgins	2d do.	20, 21	" E. G. Williams	2d do.	18, 18
" Geo. W. Lucas	2d do.	23, 22	Sgt. W. F. Towne	2d do.	18, 20
" F. J. Millard	2d do.	22, 22	Priv. Clarence Burns	2d do.	-
" W. H. Fielden	2d do.	21, 21	" C. A. Quimby	2d do.	-
Priv. A. H. Bond	2d do.	19, 21	" W. E. Atkins	3d do.	16, 17
Priv. W. M. Coon	2d do.	21, 21	" E. C. Brown	3d do.	17, 18

COMPANY F, EIGHTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv.	H. G. Cole	3d Class,	15, 16	Priv.	H. A. Johnson	3d Class,	15, 17
"	L. J. Cyr	3d do.	16, 17	"	J. H. Lucas	3d do.	15, 16
"	A. S. Drew	3d do.	15, 18	"	G. H. Villars, Jr.	3d do.	17, 17
"	K. N. Drew	3d do.	17, 17	"	H. E. Warner	3d do.	15, 18
"	J. F. Flynn	3d do.	16, 17	"	Alfred Williams	3d do.	15, 18
"	B. N. Gile	3d do.	17, 18	"	H. M. Sleeper	3d do.	-

COMPANY G, EIGHTH REGIMENT INFANTRY.

Priv.	M. P. Alderman	S. S.,	47, 48, 48	Priv.	C. G. Daniels	2d Class,	Requal.
Sgt.	J. H. Coleman	S. S.,	Requal.	Sgt.	C. A. Donahue	2d do.	Requal.
Priv.	H. F. Douglass	S. S.,	44, 48, 46	Priv.	A. A. Douglass	2d do.	Requal.
"	J. W. Fowler	S. S.,	45, 49, 46	"	J. H. Gourville	2d do.	19, 19
"	J. N. Gardner	S. S.,	46, 48, 46	"	E. Grace, Jr.	2d do.	18, 18
Sgt.	E. F. Gibbs	S. S.,	45, 48, 46	"	P. B. Howard	2d do.	19, 19
Priv.	Chas. Grant	S. S.,	44, 49, 46	"	J. W. Ingersoll	2d do.	Requal.
"	H. H. Hall	S. S.,	Requal.	Sgt.	J. P. McInnis	2d do.	20, 19
"	F. W. Johnson	S. S.,	44, 48, 46	Priv.	J. McLaughlin	2d do.	20, 20
"	Sam'l McQuinn	S. S.,	Requal.	Corp'l	J. J. Mellow	2d do.	19, 19
Lt.	F. C. Noyes	S. S.,	44, 48, 46	Priv.	M. A. Ring	2d do.	Requal.
Capt.	R. P. O'Reilly	S. S.,	44, 48, 47	"	C. F. Roberts	2d do.	Requal.
Sgt.	J. M. Publicover	S. S.,	46, 48, 48	"	T. J. Rodgers	2d do.	Requal.
Corp'l	W. B. Publicover	S. S.,	44, 48, 46	"	W. T. Stockel- berg	2d do.	18, 18
Priv.	A. L. Shrinert	S. S.,	44, 48, 47	"	F. A. Silva	2d do.	Requal.
Priv.	A. G. Trevoay	S. S.,	45, 48, 46	"	J. E. Walsh	2d do.	18, 20
Corp'l	Daniel Buckley	1st Class,	42, 44	"	H. L. Wass	2d do.	22, 20
Priv.	W. T. Como	1st do.	42, 42	"	H. B. Winchester	2d do.	20, 18
Lt.	W. J. Crawley	1st do.	44, 46	"	A. T. Wonson	2d do.	18, 19
Priv.	S. S. DeCoste	1st do.	43, 42	"	J. H. Anstess	3d do.	16, 17
Sgt.	E. J. Horton	1st do.	Requal.	Mus.	E. P. Buffinton	3d do.	16, 17
Priv.	W. E. Landry	1st do.	43, 45	Priv.	J. M. Burns	3d do.	15, 16
"	W. F. Marston	1st do.	42, 42	"	M. L. Carroll	3d do.	15, 15
"	C. M. McIsaac	1st do.	42, 43	"	M. DeCoste	3d do.	17, 16
"	Everett Ring	1st do.	42, 43	"	E. A. Hall	3d do.	15, 18
"	J. J. Rodgers	1st do.	44, 42	"	C. L. Ingersoll	3d do.	15, 17
"	Stephen Thomas	1st do.	43, 43	"	Ralph F. Irving	3d do.	15, 16
"	Manuel Bolcome	2d do.	20, 20	"	W. S. Landry	3d do.	17, 18
"	W. H. Bolter	2d do.	19, 18	"	D. McAuley	3d do.	16, 18
"	Geo. L. Browne	2d do.	18, 20	"	C. H. Parsons	3d do.	17, 18
"	C. K. Butler	2d do.	19, 18	"	C. H. Robinson	3d do.	16, 19
"	Geo. A. Critchett	2d do.	18, 19	"	C. L. Stockel- berg	3d do.	17, 19
"	J. T. Crowell	2d do.	19, 19				

COMPANY H, EIGHTH REGIMENT INFANTRY.

Corp'l	J. H. Carter	1st Class,	44, 45	Priv.	G. H. Plummer	2d Class,	18, 18
Corp'l	A. I. Tucker	1st do.	42, 45	Lt.	P. A. Fitzgerald	2d do.	-
Capt.	H. P. Staples	2d do.	19, 19	Sgt.	G. M. Dickey	3d do.	15, 16
Lt.	D. B. Purbeck	2d do.	18, 19	Sgt.	S. W. Arrington	3d do.	17, 17
Sgt.	J. I. Fuller	2d do.	18, 19	Priv.	W. H. Boom- hover	3d do.	15, 17
"	A. B. Osborne	2d do.	18, 19	"	C. E. Batchelder	3d do.	17, 19
"	W. A. Soper	2d do.	18, 19	"	J. H. English	3d do.	16, 17
Corp'l	E. P. Fuller	2d do.	18, 20	"	H. C. Howe	3d do.	15, 15
Corp'l	Geo. N. Jewett	2d do.	18, 19	"	W. A. Nichols	3d do.	15, 17
Mus.	F. B. West	2d do.	20, 20	"	W. P. Nichols	3d do.	17, 17
Priv.	E. C. Coan	2d do.	Requal.	"	T. O. H. Pineau	3d do.	17, 17
"	F. W. Kimball	2d do.	19, 22	"	G. B. Parsons	3d do.	16, 18
"	E. C. White	2d do.	19, 21	"	James Ring	3d do.	15, 17
"	L. B. Foss	2d do.	19, 20	"	D. Boomhover	3d do.	-
"	J. H. Page	2d do.	19, 20				

COMPANY I, EIGHTH REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1898.	RANK.	NAME.	Record. Class.	Range Work. 1898.
Lt. G. N. B. Cousins	S. S.,		44, 48 48	Priv. W. W. Hall	2d Class,		18, 20
Sgt. W. A. Baker	S. S.,		46, 49, 48	" L. J. Harvey	2d do.		19, 20
Sgt. F. G. Harden	S. S.,		45, 50, 48	" Jere. Laughlin	2d do.		19, 19
Priv. W. T. Abbott	S. S.,		48, 49, 47	" E. Stephens, Jr.	2d do.		20, 22
" John Simpson	S. S.,		44, 48, 47	" J. A. Thompson	2d do.		20, 21
" W. F. Wood	S. S.,		44, 49, 48	" F. A. Wood	2d do.		18, 18
Capt. E. T. Brackett	1st Class,		44, 48	Sgt. M. D. Skinner	3d do.		18, 16
Sgt. F. W. Durgin	1st do.		46, 45	Priv. O. L. Bacheller	3d do.		16, 19
Mus. C. A. Day	1st do.		42, 43	" T. F. Cogan	3d do.		17, 18
Priv. E. P. Dow	1st do.		42, 44	" M. Conbig	3d do.		16, 18
" J. M. Smith	1st do.		42, 45	" J. L. Conbig	3d do.		15, 17
" F. O. Gould	1st do.		Requal.	" F. H. Dow	3d do.		15, 16
Lt. Enoch Gove	2d do.		18, 20	" D. W. Fogg	3d do.		15, 16
Sgt. C. E. Hodgdon	2d do.		21, 22	" J. P. Hart	3d do.		16, 20
Corp'l C. P. Roberts	2d do.		19, 21	" E. F. Hall	3d do.		16, 18
" F. B. Varney	2d do.		18, 19	" F. A. Jellison	3d do.		17, 19
" J. E. Williams	2d do.		18, 18	" F. E. Joy	3d do.		16, 16
" E. C. Cann	2d do.		19, 20	" F. G. Lillyman	3d do.		15, 16
Priv. J. F. Brackett	2d do.		18, 18	" M. A. Lock-			
" E. T. Brackett,				wood	3d do.		15, 16
Jr.	2d do.		21, 21	" T. F. Mather	3d do.		16, 17
" H. A. Carter	2d do.		18, 19	" John Pickett	3d do.		16, 17
" L. B. Carter	2d do.		18, 20	" E. J. Quinn	3d do.		16, 21
" W. H. Cham-				" P. F. Sherman	3d do.		17, 18
berlin	2d do.		19, 20	" W. C. Stone	3d do.		15, 17
" Chas. Cotting	2d do.		18, 19	" A. O. Whitney	3d do.		18, 17
" H. B. Eldridge	2d do.		19, 20				

COMPANY K, EIGHTH REGIMENT INFANTRY.

Sgt. H. E. Hall	1st Class,	45, 48	Priv. J. Wrest	2d Class,	21, 20
Capt. F. C. Damon	2d do.	18, 18	Sgt. J. T. Carroll	2d do.	19, 19
Lt. A. P. Chase	2d do.	22, 20	Priv. J. D. Brummett	2d do.	19, 19
Sgt. G. W. Battye	2d do.	21, 20	" L. W. Gold-		
Corp'l G. H. Poor	2d do.	22, 22	thwaite	2d do.	Requal.
" W. T. Stone	2d do.	20, 20	" F. L. Park-r	2d do.	19, 17
" H. C. Crosby	2d do.	19, 18	" A. O. Gould	2d do.	16, 15
Mus. C. H. Walker	2d do.	21, 21	" L. W. Watson	2d do.	17, 19
Priv. T. E. Blodgett	2d do.	20, 19	" W. P. Levy	2d do.	17, 18
" F. Brown	2d do.	18, 19	" G. F. Suther-		
" E. Flye	2d do.	23, 22	land	2d do.	16, 16
" E. P. Hammond	2d do.	22, 21	" E. W. Wells	2d do.	18, 17
" J. J. McCauley	2d do.	21, 18	" W. P. Blake	2d do.	19, 16
" D. P. McCarty	2d do.	21, 20	" W. E. Lock-		
" C. F. Mackenzie	2d do.	20, 19	head	2d do.	17, 17
" J. Means	2d do.	19, 19	" Ed. Lawson	2d do.	17, 15
" G. O. Randlett	2d do.	18, 19	Sgt. H. W. French	2d do.	-
" G. W. Scampton	2d do.	19, 19	Priv. E. E. O'Neil	3d do.	-
" A. Smiley	2d do.	18, 18	" F. D. Nimblett	3d do.	-
" W. A. Sillars	2d do.	19, 19	" F. O. Legro	3d do.	-

COMPANY L, EIGHTH REGIMENT INFANTRY.

Corp'l M. W. Donovan	S. S.,	44, 49, 46	Sgt. Wm. McNiff	1st Class,	43, 43
Priv. J. J. Donovan	S. S.,	45, 48, 47	Corp'l G. W. Blanchard	1st do.	43, 42
Capt. F. A. Coan	1st Class,	42, 42	Priv. J. C. Duchesney	1st do.	42, 46
Lt. James Forbes	1st do.	43, 46	" J. K. Fish	1st do.	46, 46
Sgt. M. H. Manchester	1st do.	46, 43	" J. D. Harrington	1st do.	42, 43
			" R. O. Hill	1st do.	42, 44

COMPANY L, EIGHTH REGIMENT INFANTRY — Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. W. McAloon .	1st Class,		44, 42	Priv. H. J. Watts .	2d Class,		19, 20
" J. Regan .	1st do.		43, 42	Sgt. Geo. H. Wilton .	2d do.		-
" J. J. Smith .	1st do.		44, 44	Priv. Harry F. Lewis	2d do.		-
Sgt. J. T. Finn .	2d do.		Requal.	Lt. T. J. Lawless .	3d do.		16, 17
Corp'l J. D. McRobbie	2d do.		19, 21	Priv. J. Ashburne .	3d do.		15, 16
Priv. J. Connors .	2d do.		20, 20	" T. L. Callaban .	3d do.		16, 17
" D. H. Beattie .	2d do.		18, 18	" J. A. Campbell .	3d do.		16, 18
" J. T. Beattie .	2d do.		19, 20	" Thomas Coyle .	3d do.		15, 15
" J. L. Brackett .	2d do.		18, 19	" Joseph Cockroft .	3d do.		16, 17
" W. L. Fernald .	2d do.		Requal.	" D. J. Donovan .	3d do.		15, 16
" A. C. Fish .	2d do.		19, 20	" H. Domingue .	3d do.		15, 16
" O. Fish .	2d do.		20, 21	" G. M. Henderson .	3d do.		16, 17
" J. J. Gillespie .	2d do.		19, 19	" Joseph Kelly .	3d do.		15, 17
" A. Glennie .	2d do.		18, 18	" Herbert May .	3d do.		15, 20
" M. J. Leahy .	2d do.		Requal.	" J. W. Morris .	3d do.		16, 18
" Dennis Keefe .	2d do.		19, 21	" W. L. Smith .	3d do.		15, 15
" H. P. Reilley .	2d do.		19, 20	" John Stott .	3d do.		14, 19
" S. M. Reilley .	2d do.		20, 21	" P. T. Smith .	3d do.		-
" Edward Wall .	2d do.		19, 19				

COMPANY M, EIGHTH REGIMENT INFANTRY.

Lt. A. M. Whitten .	S. S.,		Requal.	Priv. O. J. Fretchof	2d Class,		-
Lt. G. L. Marshall .	S. S.,		49, 49, 48	" A. N. Hale .	2d do.		-
Sgt. H. W. Whitten .	S. S.,		46, 49, 47	" J. H. Landers .	2d do.		-
Mus. I. P. Horton .	S. S.,		44, 48, 46	" J. Martin .	2d do.		-
Priv. W. P. Bond .	1st Class,		-	" G. W. Saurman .	2d do.		-
Priv. J. Kenny, 1st .	1st do.		-	" E. J. Withrow .	2d do.		-
Corp'l W. J. Oliver .	1st do.		44, 48	" E. M. Young .	2d do.		-
Priv. W. W. Ramsey .	1st do.		43, 42	Sgt. L. F. Chamberlin	3d do.		15, 16
Capt. H. M. Parsons .	2d do.		19, 20	Priv. G. O. Cook .	3d do.		15, 19
Sgt. C. M. Robbins .	2d do.		19, 20	" G. A. Curtis .	3d do.		15, 16
" A. W. Furlong .	2d do.		18, 18	" C. Everton .	3d do.		15, 17
" G. I. Canfield .	2d do.		18, 19	" C. C. Hodgdon .	3d do.		15, 17
Corp'l S. D. White .	2d do.		18, 19	" J. W. Hyson .	3d do.		16, 16
Priv. C. S. Carter .	2d do.		21, 21	" J. Kenny, 2d .	3d do.		17, 18
" F. P. Edwards .	2d do.		18, 20	" R. J. Lynd .	3d do.		15, 15
" W. C. Hammond .	2d do.		18, 18	" O. H. Plummer .	3d do.		15, 19
" F. H. Leslie .	2d do.		20, 21	" L. R. P. Rayne .	3d do.		15, 16
" H. F. Lovering .	2d do.		18, 19	" C. D. Stone .	3d do.		15, 16
" A. M. Patterson .	2d do.		21, 21	" F. W. Allen .	3d do.		-
" F. S. Riggs .	2d do.		19, 19	" W. N. Boynton .	3d do.		-
" A. C. Taylor .	2d do.		18, 19	" D. E. Emerson .	3d do.		-
" A. E. Ward .	2d do.		19, 20	" C. N. Fletcher .	3d do.		-
" F. J. White .	2d do.		19, 20	" W. C. Hanson .	3d do.		-
" J. E. Wiley .	2d do.		18, 18	" W. D. Hayden .	3d do.		-
" R. S. Wiley .	2d do.		21, 22	" F. T. Jones .	3d do.		-

FIELD AND STAFF, NINTH REGIMENT INFANTRY.

Maj. W. H. Donovan	S. S.,		46, 48, 47	Asst. Surg. D. F. O'Callaghan .	3d Class,		15, 16
Lt. John Breen .	S. S.,		47, 49, 46	Sgt. J. E. Donovan .	3d do.		15, 16
Col. F. B. Bogan .	2d Class,		Requal.	Maj. M. J. O'Connor	3d do.		-
Lt. Col. L. J. Logan .	2d do.		18, 19	Surg. W. H. Devine .	2d do.		-
Maj. P. J. Grady .	2d do.		19, 18	Lt. J. H. Nugent .	3d do.		-
Col. Sgt. J. J. Nagle .	2d do.		18, 19	Chaplain James Lee	2d do.		-

COMPANY A, NINTH REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Capt. D. J. Keefe .		2d Class.	20, 21	Priv. Wm. O'Brien .	3d Class.	16, 16	
Lt. G. M. Rogers .		2d do.	20, 23	" Paul J. Spillane .	3d do.	15, 15	
Lt. T. J. Sullivan .		2d do.	19, 21	" M. T. Sullivan .	3d do.	15, 15	
Sgt. P. J. Leahy .		2d do.	20, 20	Corp'l C. J. Shea .	3d do.	-	
" Edward Murphy .		2d do.	18, 19	" M. Jenkins .	3d do.	-	
" D. W. Sullivan .		2d do.	19, 21	" M. R. Smith .	3d do.	-	
" E. J. Lee .		2d do.	18, 19	Priv. W. H. Andrews .	3d do.	-	
" J. J. Fleming .		2d do.	20, 20	" A. Bagnall .	3d do.	-	
Priv. J. J. Flynn .		2d do.	18, 18	" M. F. Carney .	3d do.	-	
" M. J. McLaughlin .		2d do.	20, 18	" J. W. Doherty .	2d do.	-	
" John McCue .		2d do.	19, 19	" J. J. Gallagher .	3d do.	-	
" Chas. H. Potter .		2d do.	20, 20	" Jos. Glynn .	3d do.	-	
" E. J. Callahan .		3d do.	16, 17	" M. J. Hart .	3d do.	-	
" Wm. J. Curtis .		3d do.	15, 15	" Jas. M. Hurley .	3d do.	-	
" M. D. Connor .		3d do.	15, 16	" Thos. P. Little .	3d do.	-	
" T. J. Clements .		3d do.	15, 18	" C. F. McCarthy .	3d do.	-	
" Wm. Daley .		3d do.	15, 17	" M. J. McLaughlin .	3d do.	-	
" John Dugan .		3d do.	15, 17	" J. R. McLaughlin .	3d do.	-	
" P. J. Foley .		3d do.	16, 16	" S. J. Moore .	3d do.	-	
" J. F. Gunning .		3d do.	17, 15	" Henry Mulder .	3d do.	-	
" Irvin Hess .		3d do.	15, 15	" R. J. Wenmouth .	3d do.	-	
" H. W. Lowder .		3d do.	16, 17	Mus. Robert J. White .	3d do.	-	
" John J. Moore .		3d do.	17, 19				
" C. W. Murphy .		3d do.	15, 15				

COMPANY B, NINTH REGIMENT INFANTRY.

Capt. G. F. H. Murray .	2d Class.	18, 21	Priv. Jas. T. Dunn .	3d Class.	16, 17
Sgt. James F. Walsh .	2d do.	20, 22	" Joseph H. Fee .	3d do.	16, 17
Priv. John J. Hickey .	2d do.	20, 22	" E. M. French .	3d do.	15, 17
Priv. P. M. O'Brien .	2d do.	19, 19	" R. B. Gilliam .	3d do.	15, 15
Lt. M. J. Desmond .	2d do.	-	" W. F. Godvin .	3d do.	16, 17
Sgt. J. A. Guthrie .	3d do.	16, 19	" William Heath .	3d do.	16, 16
Sgt. J. S. McAdams .	3d do.	15, 15	" J. T. Jennings .	3d do.	16, 17
Corp'l T. L. Gavin .	3d do.	16, 17	" D. S. McDonald .	3d do.	15, 17
" P. E. F. Driscoll .	3d do.	16, 16	" John J. Lynch .	3d do.	15, 16
" J. J. Donahue .	3d do.	16, 17	" Jas. T. Quinn .	3d do.	16, 18
Bug. Geo. C. Wiley .	3d do.	15, 16	" M. D. Reagan .	3d do.	15, 16
Priv. R. F. Arnold .	3d do.	15, 15	" Martin Roust .	3d do.	15, 17
" E. T. Barry .	3d do.	15, 16	" Geo. G. Saylor .	3d do.	15, 16
" G. F. B. Crowtin .	3d do.	15, 17	" John T. Stone .	3d do.	15, 16
" Charles Dorgan .	3d do.	15, 15	" Jas. F. Trainor .	3d do.	15, 15
			" A. F. Vance .	3d do.	16, 17
			Sgt. Chas. S. Hamm .	3d do.	-

COMPANY C, NINTH REGIMENT INFANTRY.

Lt. Henry Crane .	2d Class.	19, 20	Corp'l D. V. Driscoll .	3d Class.	15, 16
Corp'l Jos. J. Foley .	2d do.	19, 21	Priv. J. R. Collins .	3d do.	15, 16
" J. J. O'Neill .	2d do.	18, 19	" Thos. F. Curley .	3d do.	16, 17
" H. A. Healy .	2d do.	22, 23	" P. F. Doherty .	3d do.	16, 16
Priv. J. M. Cotter .	2d do.	18, 19	" Jos. S. Gavin .	3d do.	16, 17
Sgt. T. E. McCarthy .	3d do.	-	" John Glynn .	3d do.	16, 17
Capt. T. F. Quinnlan .	3d do.	15, 15	" James Tobin .	3d do.	15, 16
Sgt. John Spillane .	3d do.	15, 15	" T. E. Lonergan .	3d do.	-
Sgt. Thos. J. Lawlor .	3d do.	17, 18			

COMPANY D, NINTH REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. E. J. Howard .	2d Class.	18, 19	Priv. C. H. D. Murphy	3d Class.	16, 15		
Priv. M. J. Murphy .	2d do.	20, 21	" M. J. Power .	3d do.	16, 15		
Lt. David M. Crotty .	2d do.	21, 19	" Thos. F. Troy .	3d do.	16, 20		
Lt. J. B. Carey, Jr. .	2d do.	22, 22	" Wm. McKeever .	3d do.	16, 18		
Priv. J. J. Garrity .	2d do.	18, 18	" C. H. Emerson .	3d do.	16, 17		
1st Sgt. J. J. Doyle .	2d do.	20, 20	Sgt. T. J. Gallagher	3d do.	15, 17		
Corp'l C. E. Townsend	2d do.	21, 21	Priv. P. A. Daley .	3d do.	16, 17		
Priv. J. F. Murphy .	2d do.	19, 18	" E. J. Howard .	3d do.	17, 16		
Priv. J. P. Murphy .	2d do.	18, 19	" J. McTienan .	3d do.	16, 16		
Sgt. Percy D. Sawyer	3d do.	15, 15	" M. A. O'Neill .	3d do.	17, 15		
Priv. J. A. Turnbull	3d do.	17, 19	" M. J. Murphy .	3d do.	16, 17		
Priv. P. H. Mullen .	3d do.	17, 16	Corp'l E. J. McBride	3d do.	16, 18		
Capt. F. T. L. Magurn	3d do.	18, 16	Sgt. T. J. Maloney .	3d do.	16, 17		
Priv. Joseph Delany	3d do.	16, 17	Priv. E. G. O'Hara .	3d do.	15, 16		
Priv. W. P. Watson .	3d do.	16, 18	" W. A. Kinsley .	3d do.	16, 16		
Corp'l Frank S. Harrington .	3d do.	17, 16	" Andrew Egan .	3d do.	16, 17		
Priv. F. M. Hunter .	3d do.	16, 17	" W. H. Donovan .	3d do.	18, 17		
" J. S. Blagdon .	3d do.	16, 17	" John F. Tierney	3d do.	17, 18		
			Corp'l C. E. Brines .	3d do.	17, 16		

COMPANY E, NINTH REGIMENT INFANTRY.

Capt. J. G. Fennessey	S. S.,	46, 48, 46	Priv. J. J. Heffernan	3d Class,	15, 16
Corp'l E. S. Rice .	S. S.,	44, 45, 48	" G. F. Hodnett .	3d do.	15, 16
Mus. John R. Cuddy .	1st Class,	46, 46	" Edw. F. Kehoe .	3d do.	16, 16
Sgt. F. R. Carroll .	2d do.	18, 19	" Jas. J. Kelley .	3d do.	17, 17
Lt. Richard H. Foley	2d do.	19, 22	" Edw. Kenney .	3d do.	15, 15
Priv. J. F. Golden .	2d do.	21, 21	Sgt. John H. Kyle .	3d do.	15, 16
Priv. J. J. Harrington	2d do.	18, 19	Priv. Stephen Lynch	3d do.	15, 16
Corp'l T. F. McCarthy	2d do.	19, 19	" J. A. McAlevy .	3d do.	15, 17
Corp'l J. L. Molloy .	2d do.	18, 19	" D. J. McAnulty .	3d do.	15, 16
Priv. D. P. Sullivan	2d do.	18, 19	" H. J. McCarron .	3d do.	16, 16
Lt. J. J. Sullivan .	2d do.	18, 18	" W. H. McCarthy	3d do.	16, 17
Priv. J. J. Talbot .	2d do.	20, 21	" J. A. McLaughlin .	3d do.	15, 15
Corp'l Wm. M. Ayer	3d do.	16, 16	" J. J. McNamara	3d do.	15, 16
Sgt. John J. Barry .	3d do.	15, 16	" P. J. McNulty .	3d do.	15, 15
Priv. Louis J. Brady	3d do.	16, 17	" D. F. Mehanan	3d do.	16, 15
" Wm. J. Burke .	3d do.	15, 15	" John J. Murphy	3d do.	15, 16
" W. H. Cadigan .	3d do.	15, 16	" T. M. O'Brien .	3d do.	15, 16
" Wm. J. Carten .	3d do.	15, 15	" C. O'Donnell .	3d do.	16, 16
" C. Crowley .	3d do.	16, 17	Corp'l P. F. O'Keefe	3d do.	15, 16
" John L. Curry .	3d do.	16, 17	Priv. G. A. Powers .	3d do.	15, 16
" C. J. Driscoll .	3d do.	15, 15	" R. D. Quirk .	3d do.	15, 16
" A. J. Farquharson .	3d do.	15, 15	" J. J. Reardon .	3d do.	17, 17
" T. F. Feeley .	3d do.	15, 15	" P. H. Riley .	3d do.	17, 18
" E. J. Fennessey .	3d do.	15, 16	" M. A. Ryan .	3d do.	15, 17
" E. J. Gallagher	3d do.	15, 17	" W. H. Stevens .	3d do.	16, 17
Corp'l D. J. Gleason .	3d do.	15, 16	" Daniel Sullivan	3d do.	16, 17
Sgt. James M. Griffin	3d do.	17, 18	" John F. Winn .	3d do.	15, 16
Priv. J. E. Haskin .	3d do.	16, 16			

COMPANY F, NINTH REGIMENT INFANTRY.

Capt. J. H. Joubert .	S. S.,	45, 48, 47	Corp'l Bernard Cunningham .	1st Class,	43, 44
Sgt. Thos. Kirkwood	S. S.,	47, 49, 46	Priv. Chas. Duffin .	1st do.	43, 43
Corp'l P. Barry .	1st Class,	42, 45	Corp'l W. H. Gemmell	1st do.	43, 43
Lt. Michael S. Boles	1st do.	42, 44			

COMPANY F, NINTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Sgt. James Moran .	1st Class,	42, 43	Priv. Patrick Walsh	2d Class,	21, 22		
Sgt. R. W. Patterson	1st do.	44, 43	" J. O. Wheeler .	2d do.	19, 20		
Priv. P. Regan .	1st do.	42, 42	" J. Woodburn .	2d do.	19, 18		
Lt. P. A. Sands .	1st do.	43, 43	" M. J. Barden .	3d do.	16, 19		
Priv. Wm. A. Corey	2d do.	18, 20	" J. H. Brown .	3d do.	16, 17		
Priv. John J. Cronin	2d do.	18, 19	" J. F. Burke .	3d do.	15, 18		
Sgt. John F. Devine	2d do.	19, 20	" M. J. Byrne .	3d do.	16, 18		
Priv. M. Donohoe .	2d do.	18, 18	" Daniel Donohoe	3d do.	15, 16		
" Murty Dugan .	2d do.	19, 20	" Joseph Donohoe	3d do.	15, 16		
" D. H. Finn .	2d do.	20, 22	" John Donoghoe	3d do.	15, 15		
" Wm. Gordon .	2d do.	20, 20	" J. J. Harrison .	3d do.	15, 16		
" Wm. Grant .	2d do.	20, 20	" C. Holroyd .	3d do.	16, 18		
" John Kane .	2d do.	22, 23	" M. Howard .	3d do.	16, 17		
Sgt. T. A. Kennedy .	2d do.	20, 23	" John R. Jones .	3d do.	15, 16		
Sgt. D. H. Kelleher .	2d do.	18, 21	" J. H. Kenney .	3d do.	17, 17		
Priv. J. J. Kelleher .	2d do.	18, 20	" P. Kennedy .	3d do.	15, 16		
" W. E. Knightly	2d do.	18, 19	" R. A. Linnehan	3d do.	15, 17		
" F. Lemelle .	2d do.	19, 20	" Timothy Lynch	3d do.	15, 15		
" Wm. Lemelle .	2d do.	18, 18	" Emory Miller .	3d do.	15, 16		
Corp'l P. J. Lucy .	2d do.	21, 21	" James McGurn	3d do.	16, 16		
Priv. Joseph Mosher	2d do.	18, 19	" P. J. O'Callag-				
" T. F. O'Neill .	2d do.	18, 18	han .	3d do.	16, 21		
" Patrick Quinn .	2d do.	20, 21	" John Regan .	3d do.	18, 15		
" A. O. Simmers	2d do.	19, 21	" Edward Ward .	3d do.	17, 17		
" Michael Smith .	2d do.	19, 22	" J. F. Whittaker	3d do.	15, 16		
Corp'l J. H. Sweeney	2d do.	18, 20	Corp'l T. F. Powers	3d do.	-		

COMPANY G, NINTH REGIMENT INFANTRY.

Sgt. R. M. Burns .	S. S.,	46, 49, 46	Sgt. W. E. McCann	2d Class,	-		
Lt. M. E. Hinds .	1st Class,	43, 43	Priv. E. A. Malice .	3d do.	-		
Lt. J. Movnihan .	1st do.	42, 42	" W. F. Casey .	3d do.	16, 18		
Priv. J. W. Curran .	2d do.	20, 20	" C. Degnan .	3d do.	15, 17		
Priv. J. Casey .	2d do.	18, 18	" F. M. Flanley .	3d do.	15, 16		
Corp'l J. W. Ellis .	2d do.	19, 19	" H. Griffin .	3d do.	16, 17		
Priv. J. J. Gallagher	2d do.	18, 21	Corp'l T. W. Kenni-				
Sgt. J. F. Hurley .	2d do.	20, 22	ery .	3d do.	15, 16		
Corp'l J. F. Horan .	2d do.	20, 22	Priv. J. E. Lanigan .	3d do.	15, 18		
Priv. M. J. Horan .	2d do.	19, 20	Priv. F. J. Movnihan	3d do.	16, 17		
Corp'l R. Lee .	2d do.	18, 20	Corp'l J. P. McManus	3d do.	17, 19		
Sgt. P. J. McManus	2d do.	20, 21	Priv. J. F. Quinn .	3d do.	15, 16		
Corp'l J. F. McGrath	2d do.	19, 18	" T. F. Rooney .	3d do.	15, 18		
Priv. F. McGrath .	2d do.	18, 18	" P. J. Sullivan .	3d do.	17, 17		
Capt. Wm. Regan .	2d do.	18, 18	" J. E. Valentine	3d do.	15, 19		
Priv. J. D. McSweeney	2d do.	18, 18	Corp'l M. Hayes .	3d do.	-		

COMPANY H, NINTH REGIMENT INFANTRY.

Sgt. F. H. Laskey .	1st Class,	42, 46	Corp'l M. J. Ratigan	3d Class,	15, 16		
Mus. F. J. Magee .	1st do.	42, 43	" Edw. J. Ryan	3d do.	15, 15		
Lt. Wm. J. Mildrum	1st do.	-	" P. H. Sullivan	3d do.	15, 15		
Capt. John J. Hayes	2d do.	19, 20	Priv. Jas. P. Clark .	3d do.	16, 17		
Lt. B. J. Flanigan .	2d do.	19, 21	" J. S. Donohoe .	3d do.	15, 17		
Sgt. Jas. A. Bragan .	2d do.	19, 21	" Joseph King .	3d do.	16, 17		
Sgt. T. F. Clark .	2d do.	18, 19	" J. J. Lennon .	3d do.	15, 15		
Corp'l Jas. Reardon.	2d do.	18, 18	" W. F. Manning	3d do.	17, 19		
Priv. Frank J. Ryan	2d do.	19, 20	" J. P. Sullivan .	3d do.	15, 16		
" Geo. Wilkinson	2d do.	18, 19	" Wm. F. Tighe .	3d do.	-		
" Fred T. Sears .	2d do.	18, 19					

COMPANY I, NINTH REGIMENT INFANTRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Capt. L. A. Dowd		2d Class,	23, 21	Priv. J. A. Hanlon		3d Class,	17, 17
Lt. John H. Dunn		2d do.	20, 20	" William Hart		3d do.	15, 15
Sgt. J. S. Benton		2d do.	20, 21	" J. T. Kilroe		3d do.	15, 15
Sgt. Jas. A. Cully		2d do.	19, 19	" B. J. O'Brien		3d do.	17, 16
Priv. P. F. Clancy		2d do.	18, 20	" J. A. O'Connor		3d do.	17, 16
Sgt. P. W. Kenney		2d do.	18, 19	" F. J. Perkins		3d do.	16, 19
Sgt. M. F. Morrissey		2d do.	18, 19	" John W. Reilley		3d do.	18, 17
Priv. G. F. O'Donnell		2d do.	18, 18	" P. J. Ryan		3d do.	15, 17
" Jas. H. Stout		2d do.	18, 18	Corp'l John J. Ryan		3d do.	15, 16
" John J. Doyle		3d do.	18, 16	Bug. Frank Sullivan		3d do.	17, 19
" P. H. Flaherty		3d do.	16, 15	Priv. M. J. Stafford		3d do.	16, 19
" E. D. Fitzgerald		3d do.	15, 16	" F. H. White		3d do.	16, 23
" D. A. Griffin		3d do.	16, 18	" Geo. A. Yeagle		3d do.	15, 15
" P. J. Grogan		3d do.	16, 15	Lt. Wm. J. Casey		3d do.	-

COMPANY K, NINTH REGIMENT INFANTRY.

Lt. Peter J. Cannon	1st Class,	42, 42	Priv. Wm. Buckley	3d Class,	15, 16
Priv. Mat. Connelly	1st do.	42, 44	Priv. P. J. Cannon	3d do.	15, 16
Mus. J. M. Connelly	1st do.	44, 43	Sgt. R. J. Crothers	3d do.	17, 15
Priv. Joseph Newell	1st do.	42, 42	Priv. T. Donnelly	3d do.	16, 15
Sgt. James Pender	1st do.	42, 42	" J. R. Eustace	3d do.	16, 16
Capt. W. F. Shaughnessy	1st do.	44, 45	" J. H. Ennis	3d do.	16, 16
Priv. D. J. Burns	2d do.	22, 20	" P. J. Fergerson	3d do.	16, 15
Lt. J. B. Gallagher	2d do.	18, 19	Corp'l Wm. Grady	3d do.	15, 15
Priv. M. J. Gannon	2d do.	19, 19	Priv. Patrick Hester	3d do.	16, 17
Priv. T. J. Higgins	2d do.	18, 18	Sgt. M. J. Healy	3d do.	15, 16
Corp'l M. F. Joyce	2d do.	22, 20	Priv. H. Jennings	3d do.	15, 16
Priv. T. M. Jennings	2d do.	19, 18	" Thos. Kelley	3d do.	17, 16
Corp'l Michael King	2d do.	19, 19	" J. P. Kittridge	3d do.	15, 20
Sgt. M. F. O'Malley	2d do.	18, 18	" J. J. Kellee	3d do.	15, 15
Priv. M. J. O'Malley	2d do.	18, 19	" E. McConville	3d do.	16, 16
" James O'Toole	2d do.	18, 19	" J. McConville	3d do.	15, 15
" H. E. Poole	2d do.	19, 19	Sgt. Thos. Moran	3d do.	16, 16
Corp'l Thos. M. Ward	2d do.	19, 19	Priv. Corn. Murphy	3d do.	16, 15
Priv. Robert Amour	3d do.	15, 15	" Robt. McReil	3d do.	15, 16
" David Brooks	3d do.	17, 15	" P. A. O'Malley	3d do.	15, 15
" M. J. Bryne	3d do.	18, 15	Corp'l J. W. Reynolds	3d do.	15, 16
Corp'l J. J. Boyle	3d do.	16, 17	Priv. J. J. B. Sullivan	3d do.	16, 16

COMPANY L, NINTH REGIMENT INFANTRY.

Lt. M. E. Morris	S. S.,	49, 50, 50	Corp'l M. J. Desmond	2d Class,	18, 18
Sgt. J. B. Hall	S. S.,	44, 49, 48	Priv. J. H. Beatty	2d do.	18, 18
Sgt. C. O. McCarthy	S. S.,	Requal.	" E. E. Bill	2d do.	18, 18
Corp'l J. H. Maloney	S. S.,	44, 49, 48	" J. F. Brennan	2d do.	18, 18
Capt. A. A. Kane	1st Class,	42, 42	" E. F. Bull	2d do.	18, 21
Sgt. C. E. Rice	1st do.	43, 45	" T. F. Collins	2d do.	18, 19
Sgt. D. C. Murphy	1st do.	42, 43	" M. J. Flemming	2d do.	18, 18
Corp'l J. H. McGee	1st do.	43, 45	" J. F. Kenealy	2d do.	19, 19
" T. J. Murphy	1st do.	Requal.	" E. A. Kenny	2d do.	18, 18
" P. J. Donahoe	1st do.	Requal.	" J. W. Kyte	2d do.	19, 21
Priv. C. E. Backstran	1st do.	Requal.	" J. H. McGrath	2d do.	18, 19
" P. Connealy	1st do.	Requal.	" J. P. McGurrian	2d do.	18, 18
" S. P. Coose	1st do.	Requal.	" C. H. Sayers	2d do.	18, 18
" W. J. Hogan	1st do.	42, 44	" J. E. Sayers	2d do.	18, 19
" E. W. Kendall	1st do.	44, 43	" R. F. Sweeney	2d do.	18, 18
Corp'l J. W. Connors	2d do.	18, 19	" P. A. Tatro	2d do.	18, 19

COMPANY L, NINTH REGIMENT INFANTRY—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. W. J. Welch		2d Class,	18, 19	Priv. T. E. Desmond		3d Class,	15, 15
Sgt. B. S. Tilton		2d do.	-	" T. J. Eagan		3d do.	15, 15
Mus. E. F. Lucey		3d do.	15, 16	" B. E. Garrity		3d do.	15, 15
Priv. C. Brady		3d do.	15, 15	" W. F. Hayes		3d do.	15, 17
" L. Champney,				" T. J. Keefe		3d do.	15, 15
Jr.		3d do.	16, 16	" J. N. Morean		3d do.	15, 17
" T. F. Connelly		3d do.	15, 16	" A. F. Peterson		3d do.	15, 17
" F. D. Coose		3d do.	15, 16	" H. E. Gilmore		3d do.	-

COMPANY M, NINTH REGIMENT INFANTRY.

Priv. F. J. Hopkins	1st Class,	50, 44	Priv. Joseph J. Doyle	3d Class,	15, 16
Capt. A. D. Mitten	1st do.	42, 44	" Charles Elliot	3d do.	16, 16
Lt. Phillip McNulty	1st do.	42, 45	" A. J. Fallon	3d do.	15, 15
Sgt. John J. Royal	1st do.	44, 43	Corp'l M. J. Fallon	3d do.	17, 17
Lt. John J. Ganley	1st do.	Requal.	Corp'l Fred Forsberg	3d do.	15, 15
Priv. Jas. W. Amburg	2d do.	18, 19	Priv. M. Griffin	3d do.	15, 15
Sgt. R. Blennerhas-			Priv. Thomas Griffin	3d do.	15, 15
sett	2d do.	22, 18	Sgt. D. F. Hallisey	3d do.	17, 16
Priv. John J. Casey	2d do.	19, 18	Priv. Patrick Heslin	3d do.	16, 16
" Frank Donabue	2d do.	19, 19	" C. O. Hathaway	3d do.	15, 17
" F. Dempsey	2d do.	19, 19	" Jas. C. Keefe	3d do.	15, 15
Corp'l F. McGrath	2d do.	21, 21	" T. W. Kelleher	3d do.	15, 15
Sgt. Wm. H. Murray	2d do.	19, 20	" Patrick Lerner	3d do.	15, 16
Priv. T. O. Connor	2d do.	19, 19	" M. J. Miskel	3d do.	16, 16
" Frank G. Parks	2d do.	19, 18	" John Maguire	3d do.	15, 16
" Fred J. Rollins	2d do.	19, 18	" P. Maguire	3d do.	15, 16
Sgt. M. J. Sheehan	2d do.	19, 18	" Jas. P. Myron	3d do.	15, 16
Priv. Jas. P. Vaughn	2d do.	21, 21	" Thomas Nagle	3d do.	15, 16
" James Donnelly	2d do.	18, 19	" Frank Patnaud	3d do.	17, 17
" Thos. F. Casey	3d do.	15, 15	" Robt. W. Parks	3d do.	17, 17
" James Burnett	3d do.	15, 15	" C. L. Sponholtz	3d do.	16, 16
" D. F. Coughlin	3d do.	16, 16	" A. G. Thurston	3d do.	15, 18
" Alfred A. Davis	3d do.	17, 17	" F. W. Vaughn	3d do.	16, 18
" A. B. Duncan	3d do.	17, 17	" Wm. Warner	3d do.	15, 16

FIELD AND STAFF, FIRST CORPS CADETS.

Sgt. Maj. Herbert C. Wells	D. M.,	Requal.	Surg. Wm. L. Richardson	2d Class,	19, 20
Lt. Wm. A. Hayes, 2d,			Hos. Stw'd A. S.		
I. R. P.	S. S.,	Requal.	Knight	3d do.	15, 16
Lt. J. E. R. Hill	1st Class,	Requal.	Lt. Chas. C. Melcher	3d do.	15, 15
Lt. Col. Thomas F. Edmans	2d do.	18, 20	Sgt. C. T. Lovering	1st do.	-
Asst. Surg. Charles M. Green	2d do.	19, 19	Maj. Geo. R. Rogers	1st do.	-

COMPANY A, FIRST CORPS CADETS.

Sgt. Thos. D. Barroll	D. M.,	Requal.	Corp'l J. A. Blanchard	2d Class,	20, 20
Sgt. M. Williams, Jr.	S. S.,	47, 49, 46	Priv. G. C. Bullard	2d do.	18, 20
Capt. F. H. Appleton	1st Class,	Requal.	Corp'l C. H. Cole, Jr.	2d do.	22, 21
Mus. F. J. Macfarlane	1st do.	Requal.	Priv. Thos. P. Curris	2d do.	19, 19
Priv. R. Wainwright	1st do.	43, 42	Priv. J. S. Fay, 3d	2d do.	18, 20
Corp'l Sheafe C Ross	1st do.	-	Lt. Frank L. Joy	2d do.	20, 21

COMPANY A, FIRST CORPS CADETS—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv.	C. E. Bassett,	2d Class,	-	Lt.	L. H. Wightman	2d Class,	19, 20
"	J. H. A. Currier	2d do.	-	Priv.	T. S. Bradlee	2d do.	Requal.
"	Walter H. Howe	2d do.	-	"	J. W. Saxe	2d do.	18, 20
"	C. E. Lockwood	2d do.	-	"	R. P. Waters	3d do.	16, 16
"	W. N. Lockwood	2d do.	18, 19	"	Geo. B. Blake	3d do.	-
"	P. T. Lowell	2d do.	18, 19	"	John S. Curtis	3d do.	-
"	Lynde Sullivan	2d do.	-	"	John Lavalle	3d do.	-
Sgt.	Thomas Talbot	2d do.	18, 19	"	C. H. Richardson	3d do.	-
Corp'l	F. T. Walsh,	2d do.	19, 19	"	R. K. Thomas	3d do.	-

COMPANY B, FIRST CORPS CADETS.

Priv.	H. N. Conn	D. M.,	Requal.	Priv.	J. W. Grimes	2d Class,	Requal.
Corp'l	F. P. Smith	D. M.,	43, 48, 48	"	W. S. Lincoln	2d do.	21, 21
Corp'l	H. W. Gore, Jr.	S. S.,	44, 49, 48	Corp'l	J. W. Longstreet	2d do.	18, 19
Priv.	J. M. Portal	S. S.,	44, 48, 46	Priv.	H. P. Meikle-		
Priv.	John W. Shaw	S. S.,	47, 48, 47	ham		2d do.	18, 20
Capt.	Wm. H. Ailine	1st Class,	Requal.	"	H. B. Prindle	2d do.	18, 19
Lt.	Wm. B. Clarke	1st do.	Requal.	"	P. K. A. Rich-		
Sgt.	J. G. White	1st do.	Requal.	ardson		2d do.	18, 21
Priv.	David Hansen	1st do.	44, 46	Sgt.	A. J. Rowan	2d do.	19, 22
"	A. E. Lothrop	2d do.	-	Priv.	W. A. Simpson	2d do.	19, 19
"	W. B. Southgate	2d do.	-	"	N. K. Smith	2d do.	18, 19
"	C. F. Bigelow	2d do.	18, 19	"	D. H. S. Tappan	2d do.	18, 19
Sgt.	F. B. Carpenter	2d do.	20, 21	Corp'l	C. B. Tucker	2d do.	18, 20
Priv.	H. A. T. Dow	2d do.	Requal.	Priv.	N. S. Waite	2d do.	19, 20
Mus.	J. W. Forbes	2d do.	22, 22	"	G. W. Walker	2d do.	Requal.
Priv.	H. B. Grant	2d do.	21, 21	"	F. F. Phinney	3d do.	17, 17

COMPANY C, FIRST CORPS CADETS.

Sgt.	Virgil C. Pond	S. S.,	45, 50, 47	Priv.	M. B. Faxon	2d Class,	19, 18
Priv.	H. L. Bigelow	S. S.,	44, 48, 47	"	N. F. Greeley	2d do.	18, 19
Priv.	H. V. Thayer	S. S.,	Requal.	"	E. P. Hervey	2d do.	21, 22
Capt.	A. Robeson	1st Class,	Requal.	"	F. H. Little	2d do.	20, 19
Lt.	W. L. Bouvé	1st do.	Requal.	"	G. H. Paine	2d do.	20, 22
Corp'l	W. B. Stearns	1st do.	Requal.	"	C. H. Swanton	2d do.	18, 19
Priv.	E. D. T. Har-			Sgt.	Frank N. Brown	3d do.	15, 15
lington		1st do.	42, 45	Priv.	E. R. Buffinton	3d do.	15, 16
Priv.	E. R. Nash	1st do.	-	"	Warren A. Cook	3d do.	18, 17
Sgt.	R. D. Sears	1st do.	-	"	O. W. McD.		
Priv.	C. W. Sabin, Jr.	2d do.	-	"	Cushing	3d do.	17, 18
Priv.	F. E. Wood	2d do.	-	"	F. J. V. Dakin	3d do.	16, 18
Corp'l	R. G. Frye	2d do.	-	"	J. M. Quinby	3d do.	16, 16
Priv.	G. M. R. Morse	2d do.	-	"	R. Selfridge	3d do.	15, 19
Priv.	G. Stowe	2d do.	-	"	C. E. Stearns	3d do.	16, 16
Sgt.	H. D. Warren	2d do.	18, 18	"	F. A. Stearns	3d do.	15, 15
Sgt.	A. L. Spring	2d do.	20, 19	"	W. J. Toppa	3d do.	17, 16
Corp'l	W. M. Buffum	2d do.	20, 20	Sgt.	J. E. A. Hussey	3d do.	-
"	Louis C. Page	2d do.	21, 22	Corp'l	F. J. Alley	3d do.	-
"	C. N. Fairchild	2d do.	20, 19	Priv.	M. G. Baldwin	3d do.	-
Priv.	D. H. Dearborn	2d do.	18, 20	"	A. B. Emmes	3d do.	-
"	W. R. Dorr	2d do.	21, 21	"	C. F. Page	3d do.	-
"	Morrill Dunn	2d do.	18, 19				

COMPANY D, FIRST CORPS CADETS.

Sgt.	Chas. A. Parker	D. M.,	45, 50, 48	Sgt.	W. W. Churchill		
Corp'l	A. G. Brigham	S. S.,	Requal.	Jr.		S. S.,	Requal.

COMPANY D, FIRST CORPS CADETS — Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. George A. Dill	S. S.,	Requal.		Priv. A. McMillan, Jr.	2d Class,	18, 20	
" L. F. Gray	S. S.,	Requal.		" C. F. B. Philbrook	2d do.	18, 18	
" M. D. W. Greene	S. S.,	Requal.		" A. S. Porter, Jr.	2d do.	18, 18	
" W. C. Langdon, Jr.	S. S.,	Requal.		Capt. Henry B. Rice	2d do.	18, 18	
" C. Webb	S. S.,	Requal.		Priv. C. K. Small	2d do.	20, 21	
" C. H. Alden, Jr.	1st Class,	Requal.		Mus. T. E. Spears	2d do.	18, 19	
" Allen C. Jones	1st do.	Requal.		Priv. T. F. Stoddard	2d do.	21, 21	
" Edwin L. Kent	1st do.	42, 44		Sgt. R. Whidden	2d do.	19, 19	
" B. L. Knapp	1st do.	44, 43		Corp'l H. M. Williams	2d do.	20, 20	
" Fred S. Lovis	1st do.	42, 46		Priv. C. W. Young	2d do.	18, 18	
Sgt. W. S. Simmons	1st do.	Requal.		" W. T. Ulman	2d do.	21, 22	
Corp'l J. F. Stevens	1st do.	Requal.		" F. A. Wilson	2d do.	-	
Priv. J. D. Upton	2d do.	44, 42		" A. C. Briggs	3d do.	16, 17	
Sgt. F. Elliott Cabot	2d do.	18, 19		" F. W. Clapp	3d do.	15, 17	
Priv. G. H. Chittenden	2d do.	21, 22		" Albert B. Cram	3d do.	15, 17	
" J. L. Damon, Jr.	2d do.	21, 21		Lt. E. E. Currier	3d do.	15, 16	
" H. S. Hallett	2d do.	19, 20		Priv. J. H. Hilton	3d do.	16, 16	
" G. H. Hallowell	2d do.	19, 20		" L. W. Jenkins	3d do.	16, 17	
" E. S. Hilton	2d do.	19, 19		" C. B. Morrill	3d do.	15, 19	
" H. Houghton	2d do.	20, 20		" C. D. Noyes	3d do.	15, 16	
" E. H. Hoyt	2d do.	19, 20		" S. F. Robinson	3d do.	16, 16	
" L. H. H. Johnson	2d do.	18, 18		Corp'l W. Walker	3d do.	15, 16	
" E. H. Lewis	2d do.	18, 20		Priv. C. H. Cross, 2d	3d do.	15, 15	
" C. E. Loud	2d do.	19, 19		" C. L. Simpson	3d do.	-	
				" R. Thayer	3d do.	-	
				Lt. T. B. Ticknor	3d do.	-	

FIELD AND STAFF, SECOND CORPS CADETS.

Lt. W. H. Merritt, I.			<i>Dm Maj. A. D. Coule</i>	3d Class,	-
R. P.	D. M.,	47, 50, 49	<i>Lt. E. A. Maloon</i>	3d do.	-
Lt. Andrew Fitz	2d Class,	18, 18	<i>Lt. Col. J. W. Hart</i>	3d do.	-
Sgt. C. W. Lang	3d do.	-	<i>Maj. B. R. Symonds,</i>		
<i>Chap'n E. C. Butler</i>	3d do.	-	<i>Jr.</i>	3d do.	-

COMPANY A, SECOND CORPS CADETS.

Capt. C. J. Baker	D. M.,	45, 49, 47	Corp'l F. E. Davis	2d Class,	18, 18
Sgt. G. E. Symonds	D. M.,	45, 48, 47	Priv. T. J. Fraser	2d do.	18, 19
Lt. C. F. Ropes	S. S.,	Requal.	" C. C. Friend	2d do.	19, 21
Sgt. R. Robertson	S. S.,	Requal.	" A. W. Green	2d do.	18, 20
Priv. G. W. Blinn	1st Class,	43, 45	" C. H. Hodgkinson	2d do.	18, 18
Corp'l F. F. Ferrin	1st do.	42, 42	Corp'l A. Robertson	2d do.	18, 19
Lt. J. E. Spencer	1st do.	Requal.	Priv. E. C. Ropes	2d do.	19, 19
Corp'l A. Stephenson, Jr.	1st do.	45, 42	" J. M. Simpson	2d do.	20, 21
Sgt. E. T. Graham	1st do.	42, 44	" N. T. Very	2d do.	21, 21

COMPANY B, SECOND CORPS CADETS.

Lt. R. W. Ropes	S. S.,	46, 48, 46	Priv. G. W. Nolcini	1st Class,	47, 45
Lt. P. F. Packard	S. S.,	47, 48, 46	" F. R. Safford	1st do.	42, 46
Sgt. H. S. Gilman	S. S.,	46, 48, 47	Capt. W. F. Peck	2d do.	19, 21
Corp'l F. S. Perkins	1st Class,	42, 47	Corp'l H. R. Peach	2d do.	18, 20
Priv. W. E. Littlefield	1st do.	44, 45	Priv. W. W. Babbidge	2d do.	18, 19

COMPANY B, SECOND CORPS CADETS — Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. J. W. Dodge		2d Class,	18, 18	Priv. A. A. Frost	2d Class,	-	-
" A. M. Fitz		2d do.	18, 20	" F. L. Nutter	3d do.	17, 19	17, 19
" G. A. Millett		2d do.	20, 21	" G. A. Smith	3d do.	17, 17	17, 17
" H. Putnam,		2d do.	21, 22	" H. S. Perkins	3d do.	15, 18	15, 18
" F. H. Sanger		2d do.	18, 18	" J. S. Peabody	3d do.	17, 18	17, 18
Sgt. H. F. Dalton		2d do.	-	" F. T. Chase	3d do.	-	-
Sgt. B. B. Conrad		2d do.	-	" C. I. Woodman	3d do.	-	-
Priv. J. P. Brown		2d do.	-	" J. S. Williams, Jr.	3d do.	-	-

COMPANY C, SECOND CORPS CADETS.

Priv. E. F. Bergholtz	D. M.,	Requal.	Priv. H. B. Brooks	2d Class,	18, 18
Sgt. D. M. Bruce	D. M.,	49,50,47	Corp'l F. E. Clark	2d do.	21, 21
Priv. Benj. Dimock	D. M.,	49,50,46	Priv. E. J. Green	2d do.	18, 19
" C. E. Horton	D. M.,	48,50,46	Sgt. H. L. Horton	2d do.	20, 21
" W. G. Hussey	D. M.,	49,50,46	Corp'l J. Ingram	2d do.	21, 21
" S. D. Edwards	D. M.,	Requal.	Priv. A. B. Jones	2d do.	18, 18
" J. P. Hickey	D. M.,	50,50,49	Priv. A. A. Moseley	2d do.	18, 19
Sgt. A. F. Hull	D. M.,	48,50,46	Capt. C. W. Osgood	2d do.	19, 20
Priv. W. C. Sanborn	D. M.,	Requal.	Priv. A. L. Walwork	2d do.	21, 21
Sgt. W. E. Smith	D. M.,	44,48,47	" L. P. Watkins	2d do.	18, 18
Priv. Geo. A. Irving	1st Class,	-	" G. M. Young	2d do.	19, 19
Corp'l J. G. Burbeck	1st do.	42, 43	" D. L. Jewett	3d do.	15, 16
Sgt. J. N. Clark	1st do.	Requal.	" W. J. Lewis	3d do.	17, 17
Sgt. H. S. Cummings	1st do.	45, 44	" B. F. Nason	3d do.	16, 16
Lt. F. S. Horton	1st do.	42, 45	" E. H. Nason	3d do.	16, 16
Mus. J. C. Hubon	2d do.	-	" F. E. Nason	3d do.	15, 15
" C. G. Pickett	2d do.	-	Priv. L. P. Balser	3d do.	-
" J. H. Shurman	2d do.	-	" K. Porter	3d do.	-
Lt. A. N. Webb	2d do.	-	" C. D. Ward	3d do.	-
Corp'l J. C. Brown	2d do.	18, 18			

COMPANY D, SECOND CORPS CADETS.

Sgt. W. H. Bean	D. M.,	45,48,48	Corp'l R. N. Mackay	2d Class,	19, 21
Sgt. G. E. Worthen	D. M.,	46,48,46	Priv. S. T. Norcross	2d do.	19, 20
Priv. W. E. Connor	S. S.,	45,48,46	Priv. H. K. Noyes	2d do.	19, 22
Sgt. A. Y. Rogers	S. S.,	46,48,47	Mus. J. M. Osgood	2d do.	21, 22
Priv. W. C. Burnett	1st Class,	44, 47	Priv. R. C. Reed	2d do.	Requal.
Priv. A. E. Dodge	1st do.	Requal.	" J. E. Rodger	2d do.	18, 21
Corp'l W. Kelley	1st do.	43, 45	" F. D. Shepard	2d do.	18, 18
Priv. N. S. Osgood	1st do.	44, 43	" F. C. Varnum, Jr.	2d do.	18, 19
" G. E. Worthen, Jr.	1st do.	48, 46	" H. L. Whitney	2d do.	18, 20
" E. A. Barnes	2d do.	18, 21	Corp'l E. E. Hand	2d do.	-
Sgt. E. L. Bryant	2d do.	18, 20	Priv. F. L. Allen	3d do.	-
Priv. C. T. Cahill	2d do.	19, 19	" G. C. Hatch	3d do.	16, 16
" I. C. Caverly	2d do.	18, 22	" C. C. Howe	3d do.	17, 18
" W. F. Coburn	2d do.	18, 19	" B. W. Kenney	3d do.	15, 16
" W. R. Foster	2d do.	18, 18	Lt. G. D. Kimball	3d do.	15, 18
Sgt. A. F. Grant	2d do.	20, 21	Priv. F. W. Sanborn	3d do.	16, 16
Capt. W. H. Hosmer	2d do.	20, 19	Corp'l J. A. Thomson	3d do.	16, 17
Priv. F. W. Howard	2d do.	19, 20	Priv. H. W. Hatch	3d do.	-
Priv. T. B. Hustwick	2d do.	18, 18	Priv. G. J. Sanborn	3d do.	-

FIELD AND STAFF, NAVAL BRIGADE.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Lt. Com. A. B. Denny	S. S.,		44,50,50	Mach. W. S. Lewis	2d Class,		21, 21
Lt. E. P. Dodd	S. S.,		44,49,48	Mach. E. H. Pierson	2d do.		21, 21
" A. B. Fry	S. S.,		44,49,46	Lt. Com. J. W. Weeks	2d do.		19, 19
" H. N. Sweet	S. S.,		46,50,48	Lt. T. W. Sprague	2d do.		Requal.
" G. W. Allen	1st Class,		Requal	Mach. J. J. Connolly	3d do.		15, 16
Arm. J. H. Griffin	1st do.		Requal	Elect. N. Marshall	3d do.		17, 17
Cf. G. Mate C. B. Perkins	1st do.		Requal.	Cox. W. H. McKen- dry	3d do.		15, 17
Mach. N. W. Phillips	1st do.		Requal.	Bug. J. J. McLaugh- lin, Jr.	3d do.		15, 16
Lt. Edw. H. Abbe	2d do.		20, 20	Lt G. E. Norris	3d do.		16, 17
Lt. H. M. Cuts	2d do.		20, 20	Apoth. W. M. Russell	3d do.		15, 17
Pay. Yeo. H. C. Gay- lord	2d do.		18, 20	Torp. Elect. A. E. Bliss	3d do.		-
Cf. B. M., F. R. Going	2d do.		18, 18	Com. L. O. Garrett	1st do.		-
Cf. Sig. Qm. F. C. Green	2d do.		Requal.	Pay. Yeo. W. C. Mer- rill	S. S.,		-
Sig. Qm. L. S. Green- leaf	2d do.		21, 21	M. at A., E. G. Morse	S. S.,		-
Lt. A. S. Hardy	2d do.		Requal.	Capt. J. C. Soley	1st Class,		-
Torp. Elect. H. Lemp	2d do.		18, 18	Lt. F. D. Williams	1st Class,		-

COMPANY A, NAVAL BRIGADE.

Ensign E. T. White	1st Class,	43, 48	Sea'n E. T. Fillebrown	3d Class,	15, 15
Sea'n C. B. Benedict	2d do.	20, 20	Cox. C. K. Gurney	3d do.	17, 16
" G. E. Blackmer	2d do.	19, 19	Sea'n J. C. Hampton	3d do.	16, 17
" A. H. Hildreth	2d do.	18, 19	" H. G. Hamlet	3d do.	17, 19
" J. L. Hildreth, Jr.	2d do.	18, 19	" W. A. Hawkins	3d do.	17, 19
" C. L. Hammond	2d do.	19, 19	" W. D. Leeds	3d do.	17, 17
Lt. J. Lawrence	2d do.	19, 21	" F. Minton	3d do.	18, 17
Sea'n B. V. Magness	2d do.	Requal.	" W. J. McLaugh- lin	3d do.	15, 15
" G. H. Maynard	2d do.	19, 18	" E. H. Nichols	3d do.	17, 15
" S. E. Nickerson	2d do.	Requal.	" J. H. O'Brien	3d do.	16, 15
" W. L. Perry	2d do.	19, 18	G. M., W. M. Coddling	3d do.	-
" E. G. Roberts	2d do.	19, 19	Sea'n C. B. Cushing	3d do.	-
G. M., F. L. Solomon	2d do.	19, 19	" G. W. Manson, Jr.	3d do.	-
Lt. T. H. Clapp	2d do.	-	" W. P. McDon- ough	3d do.	-
Sea'n E. V. de Auger	2d do.	-	C. B. M. C. B. Moseley	3d do.	-
" J. M. Beard	3d do.	17, 15	B. M., E. C. Spring	3d do.	-
" A. A. Bettner	3d do.	17, 16	Q. M., J. F. Turner	3d do.	-
Ensign L. T. Cushing	3d do.	18, 15			
Sea'n P. J. Doherty	3d do.	16, 16			
Sea'n J. H. Foran	3d do.	15, 15			

COMPANY B, NAVAL BRIGADE.

Lt. C. H. Brigham	S. S.,	Requal.	Sea'n R. R. Bolles	2d Class,	21, 19
B. M., C. L. Carter	S. S.,	46,50,49	" F. F. Breen	2d do.	19, 18
Lt. J. H. Dillaway, Jr.	S. S.,	44,49,46	" J. E. Camplon	2d do.	21, 18
Sea'n P. D. Shepard	S. S.,	44,48,48	Cox. D. R. Child	2d do.	21, 20
G. M., W. H. Hastings	1st Class,	43, 47	Sea'n G. F. Cowes	2d do.	18, 18
Sea'n W. E. Huston	1st do.	Requal.	" A. H. Cross	2d do.	18, 18
" H. S. Robbins	1st do.	42, 45	" H. Dennie	2d do.	19, 18
" W. J. Ryan	1st do.	42, 46	G. M., W. S. Dodd	2d do.	22, 21
Cox. A. F. Thomas	1st do.	42, 42	Ensign P. H. Downes	2d do.	20, 20
Sea'n M. Bamber	2d do.	18, 18	Sea'n E. K. Friend	2d do.	21, 19
Sea'n C. E. Belcher	2d do.	19, 18	Ensign H. F. Fuller	2d do.	21, 20
			Sea'n W. S. Howard	2d do.	21, 18

COMPANY B, NAVAL BRIGADE — Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Sea'n H. W. Jewett.		2d Class,	20, 19	Sea'n D. J. Cartwright	3d Class,	19, 15	
" E. L. Jones		2d do.	20, 20	" A. H. Choate	3d do.	17, 16	
" C. O. Meacom		2d do.	18, 18	" F. L. Drew	3d do.	18, 15	
Lt. W. M. Paul		2d do.	20, 18	" C. J. Jackson	3d do.	16, 15	
Sea'n E. L. Phillips		2d do.	19, 19	" J. W. Jenkins	3d do.	16, 15	
" W. E. Pierce		2d do.	Requal.	" H. C. Mansfield	3d do.	17, 16	
" L. Rothe		2d do.	19, 19	" C. L. McClintock	3d do.	16, 16	
Q. M., D. F. Sugbrue		2d do.	19, 18	Bug. H. J. McNider,			
G. M., D. H. Sugbrue		2d do.	22, 20	Jr.	3d do.	18, 16	
Sea'n G. W. Vialle		2d do.	18, 18	Sea'n E. A. Onthank	3d do.	15, 15	
" H. B. Vialle		2d do.	19, 18	" W. L. Sellon	3d do.	15, 15	
" T. M. Ware, Jr		2d do.	18, 18	" E. H. Shortiss	3d do.	20, 17	
" L. G. Whitney		2d do.	23, 22				
B. M., G. A. Wills		2d do.	20, 20				

COMPANY C, NAVAL BRIGADE.

G. M., N. Brewer, Jr.	S. S.,	Requal.	Sea'n F. O. Houghton	2d Class,	19, 18
Lt. Wm. A. Cary	S. S.,	46, 48, 47	" R. H. C. Kelton	2d do.	21, 19
Ensign J. D. Colt	S. S.,	44, 48, 46	" T. L. Liver-		
Cox. W. A. Eldredge	S. S.,	Requal.	more, Jr	2d do.	23, 19
Sea'n Edw. E. Hills	S. S.,	44, 48, 46	G. M., R. T. Moffatt	2d do.	20, 19
Lt. F. E. Watkeys	S. S.,	44, 48, 46	Sea'n Jas. P. Parker	2d do.	20, 20
Sea'n W. H. Morrison	S. S.,	45, 49, 48	" Geo. F. Poole	2d do.	19, 18
Ensign W. N. Dudley	S. S.,	Requal.	" Jas. O. Porter	2d do.	15, 18
B. M., B. E. Bates	1st Class,	Requal.	" Wm. E. Scott	2d do.	20, 18
Lt. A. H. Bond	1st do.	49, 42	" S. W. Sleeper	2d do.	18, 18
Q. M., C. S. Houghton	1st do.	44, 45	" Jas. J. Smith	2d do.	19, 18
Sea'n E. H. Palmer	1st do.	44, 46	" R. W. Swift	2d do.	19, 19
" C. H. Parker	1st do.	42, 42	Cox. A. R. Weed	2d do.	18, 18
" Max L. Scull	1st do.	42, 46	Sea'n Geo. M. Weed	2d do.	22, 18
" B. C. Allen	2d do.	20, 19	" John H. Wyeth	2d do.	21, 18
" F. W. Andrew	2d do.	19, 18	" E. B. Bartlett	3d do.	16, 15
" A. F. Barnes	2d do.	19, 18	" R. P. Bartlett	3d do.	17, 16
" W. F. Bartlett	2d do.	20, 18	" G. F. Colby	3d do.	19, 15
Q. M., W. A. L. Baz-			" Geo. S. Derby	3d do.	18, 15
eley	2d do.	21, 20	" Wm. H. Gard-		
Sea'n F. P. Benyon	2d do.	20, 18	ner, Jr.	3d do.	16, 15
" J. B. Blair	2d do.	22, 20	" W. P. Howe	3d do.	18, 15
" Sewall Cabot	2d do.	19, 18	" E. H. Little	3d do.	17, 15
Ensign C. T. Davis	2d do.	21, 21	" C. F. Mains	3d do.	19, 17
Sea'n T. J. Downey	2d do.	22, 21	" J. D. Parker	3d do.	15, 15
" B. Frothingham	2d do.	19, 18	" Geo. C. Scott	3d do.	16, 16
" H. E. Goodhue	2d do.	22, 19	Bug. J. B. Smythe	3d do.	17, 17
" S. E. Hathaway	2d do.	19, 19	Sea'n Bankson Taylor	3d do.	18, 15
" W. E. Holmes	2d do.	18, 18	Sea'n A. W. Trefry	3d do.	17, 17

COMPANY D, NAVAL BRIGADE.

Q. M., Willis Munroe	S. S.,	46, 48, 46	Sea'n G. A. Dew	2d Class,	19, 18
Lt. F. B. Parsons	S. S.,	44, 49, 46	" H. B. Flint	2d do.	20, 19
Sea'n F. N. Balch	1st Class,	43, 43	" G. W. Eldridge	2d do.	21, 18
Sea'n J. F. Schmeiser	1st do.	43, 42	" C. H. Hanscom	2d do.	18, 18
Q. M., A. F. Barry	1st do.	-	" G. E. Hewes,	2d do.	22, 19
Sea'n C. L. Bremer	2d do.	20, 18	" O. E. Hurd	2d do.	19, 18
Sea'n C. N. Braumball	2d do.	18, 18	B. M., G. I. Jones	2d do.	23, 22
Cox. F. J. Cavanagh	2d do.	19, 18	G. M., E. R. Knapp,		
Sea'n E. Chalmers, Jr.	2d do.	21, 21	Jr.	2d do.	19, 18
Sea'n J. E. Daly	2d do.	18, 18	Sea'n C. P. Ladd, Jr.	2d do.	19, 18

COMPANY D, NAVAL BRIGADE—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Sea'n E. B. Mero		2d Class,	19, 19	Lt. H. G. Hall,		3d Class,	18, 15
Cox. W. J. Mullally		2d do.	21, 18	Sea'n T. L. Miskell.		3d do.	18, 16
B. M., J. H. Murphy		2d do.	20, 19	" W. C. Munroe		3d do.	16, 15
G. M., G. R. Rose		2d do.	22, 21	" J. H. Nickerson		3d do.	16, 15
Lt. G. S. Selfridge		2d do.	19, 19	" J. J. Phelan		3d do.	15, 15
Sea'n E. A. Studley		2d do.	19, 18	" J. F. Pope		3d do.	17, 15
" J. E. Sweeney		2d do.	19, 20	" W. C. Rogers		3d do.	19, 15
" A. P. Teel		2d do.	18, 18	" J. F. Rollins		3d do.	17, 17
Ensign F. B. Withersbee		2d do.	Requal.	" T. E. Barron		3d do.	-
Bug. A. Raiche		2d do.	-	" H. P. Cook		3d do.	-
Sea'n F. W. Cross		3d do.	18, 16	" G. F. Daly		3d do.	-
" W. A. H. Crowley		3d do.	16, 15	Ensign C. T. Hough,		3d do.	-
" S. Freedman		3d do.	19, 16	Sea'n D. C. Palmer,		3d do.	-
" H. W. Gelb		3d do.	18, 16				

COMPANY E, NAVAL BRIGADE.

Sea'n A. F. Cary	S. S.,	45, 49, 48	Sea'n G. F. Packard	2d Class,	18, 18
" H. P. Crosby	S. S.,	44, 49, 46	Sea'n W. A. Pratt	2d do.	18, 18
" F. L. Stanley	S. S.,	44, 48, 46	G. M., L. M. Schmidt	2d do.	19, 21
B. M., D. Chase	1st Class,	46, 48	Sea'n C. E. Sprague	2d do.	21, 23
Sea'n F. W. Demmick	1st do.	42, 47	" G. H. Stapleford	2d do.	21, 21
Sea'n E. A. D'Orsay	1st do.	42, 45	" F. G. Vaughan	2d do.	18, 19
Cox. R. L. Lovell	1st do.	47, 45	Lt. M. von Loescheke	2d do.	19, 20
Bug. J. J. Moriarty	1st do.	42, 42	Sea'n W. A. McTaggart	2d do.	18, 19
Lt. H. D. Sears	1st do.	46, 50	Sea'n N. H. Burnham	3d do.	16, 18
Q. M., H. L. Smith	1st do.	44, 46	" A. Q. Carter	3d do.	15, 17
Ensign F. C. Whitmore	1st do.	46, 48	" I. R. Edmands	3d do.	17, 18
Sea'n C. L. Oechsner	1st do.	43, 43	" W. C. Goodwin	3d do.	15, 17
Sea'n B. M. Abbott	2d do.	19, 20	" J. L. Gould	3d do.	15, 16
B. M., C. F. Beames	2d do.	19, 20	" J. R. Grindrod	3d do.	17, 20
Sea'n H. D. Bedlow	2d do.	20, 20	" P. Matthews	3d do.	15, 15
Lt. F. O. Blackwell	2d do.	18, 18	" J. R. Pitman	3d do.	16, 17
G. M., J. B. Blood	2d do.	18, 20	" H. D. Rudolf	3d do.	15, 17
Sea'n C. A. Bray	2d do.	19, 19	" A. E. Smith	3d do.	17, 18
Ensign J. N. Bulkley	2d do.	18, 18	" C. P. Smith	3d do.	15, 17
Sea'n H. A. Bullard	2d do.	18, 18	" G. O. Carter	3d do.	15, 15
Sea'n C. L. Chapman	2d do.	18, 20	" G. Swett	3d do.	16, 19
Q. M., G. B. Grant	2d do.	18, 19	" F. M. Vogel	3d do.	15, 15
Sea'n G. B. Griffin	2d do.	18, 21	" S. J. Watson	3d do.	17, 17
" E. A. Hopkins	2d do.	21, 21	" A. J. Wheeler	3d do.	15, 18
" E. A. Johnson	2d do.	19, 19	" J. H. C. White	3d do.	16, 18
" J. R. Johnson	2d do.	19, 21	" W. A. Curtis	3d do.	15, 16
" F. Kleeberg	2d do.	Requal.	" T. A. Rose	3d do.	16, 17
" F. Mackintosh	2d do.	21, 21	" E. P. Hooper	3d do.	15, 15
Cox. R. E. Murray	2d do.	Requal.			

COMPANY F, NAVAL BRIGADE.

B. M., W. H. Beattie	S. S.,	45, 49, 46	Lt. J. D. Munroe	S. S.,	Requal.
Q. M., C. N. Borden	S. S.,	45, 48, 47	Sea'n J. B. Richards	S. S.,	45, 48, 46
Sea'n W. H. Brow	S. S.,	45, 48, 46	" M. W. Wilcox	S. S.,	45, 48, 46
Sea'n Owen Durfee	S. S.,	44, 48, 47	" Jeff. Borden, Jr.	1st Class,	45, 44
Cox. Lynw'd French	S. S.,	44, 49, 46	B. M., G. R. H. Bufanton	1st do.	43, 43
Sea'n E. F. Lucas	S. S.,	48, 50, 46	Sea'n P. C. Downey	1st do.	45, 43
Sea'n C. A. Moore	S. S.,	45, 49, 46			

COMPANY F, NAVAL BRIGADE—Concluded.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Lt. W. B. Edgar		1st Class,	42, 42	Sea'n A. L. Hart	2d Class,	19, 19	
Sea'n N. C. Johnson		1st do.	Requal.	" C. S. Hawkins	2d do.	20, 20	
Sea'n V. E. Macomber		1st do.	44, 43	" F. W. Lawson	2d do.	18, 18	
Bug. O. M. Peirce		1st do.	46, 44	" E. I. Marvell	2d do.	21, 18	
Sea'n G. S. B. Pritchard		1st do.	45, 44	" F. S. Mathewson	2d do.	18, 20	
" E. T. Thompson		1st do.	44, 47	" W. I. Nichols	2d do.	19, 18	
" S. A. Aldrich		2d do.	20, 19	" C. D. Peirce	2d do.	19, 19	
" C. M. Allen		2d do.	19, 18	" T. J. Pickering	2d do.	19, 18	
" W. J. Allen		2d do.	19, 18	" G. E. Sherer	2d do.	18, 18	
" J. A. Ashton		2d do.	18, 20	" W. G. Simmons	2d do.	20, 21	
" C. S. Belcher		2d do.	19, 20	" I. L. Stebbins	2d do.	18, 19	
" F. N. Borden		2d do.	18, 19	" J. F. Vanderburgh	2d do.	18, 18	
" F. C. Borden		2d do.	20, 20	" E. B. Varney	2d do.	18, 19	
Ensign R. P. Borden		2d do.	18, 19	Ensign W. C. Wetherell	2d do.	19, 19	
Sea'n J. Buffington		2d do.	18, 18	Q. M., L. E. Wood	2d do.	21, 21	
G. M., C. Buffinton		2d do.	21, 21	Sea'n W. S. Wood	2d do.	20, 18	
Sea'n J. N. Buffinton		2d do.	19, 19	Sea'n J. H. Booth	3d do.	16, 17	
" W. H. Buffinton		2d do.	21, 18	Lt. Nathan Durfee	3d do.	17, 20	
" W. J. D. Bullock		2d do.	Requal	Sea'n O. K. Hawes	3d do.	16, 16	
" J. W. Cross		2d do.	19, 18	Cox. C. L. Holmes	3d do.	18, 16	
" M. I. Deane		2d do.	18, 19	G. M., E. B. Jennings	3d do.	15, 17	
" R. B. Deane		2d do.	18, 19	Sea'n Thos. Kieran	3d do.	17, 17	
" A. D. Fisher		2d do.	18, 20	Sea'n G. H. Waring	3d do.	15, 18	
" M. W. Fisher		2d do.	18, 19				

COMPANY G, NAVAL BRIGADE.

Lt. Homer W. Hervey	S. S.,	48, 49, 49	Sea'n R. C. Neal	2d Class,	18, 18
Sea'n O. P. Bourne	S. S.,	47, 48, 47	" G. M. Piper	2d do.	19, 21
G. M., E. H. Cook	S. S.,	45, 48, 47	" C. E. Phinney	2d do.	19, 21
Sea'n G. B. Ferguson	S. S.,	44, 48, 47	" S. V. Paris	2d do.	21, 22
" F. G. Radcliffe,			Q. M., H. J. Ricketson	2d do.	18, 19
Jr.	S. S.,	44, 49	Sea'n W. F. Salter	2d do.	19, 21
" E. E. Bassett	1st Class,	42, 44	Lt. A. E. Thomas	2d do.	19, 23
" Edwin H. Burt	1st do.	43, 42	Sea'n W. F. Taber	2d do.	18, 19
" J. H. Carter	1st do.	42, 46	" J. O. Thompson, Jr.	2d do.	18, 19
" E. C. Cuddy	1st do.	42, 43	" G. H. Truman	2d do.	18, 19
" Richard Dunse	1st do.	43, 45	" J. T. Walton	2d do.	18, 18
" John H. Holt	1st do.	43, 45	" R. C. Willis	2d do.	18, 19
Q. M., Otis B. Luce	1st do.	42, 44	B. M., J. W. Braley,		
Cox. E. D. Morton	1st do.	42, 46	Jr.	3d do.	15, 15
Ensign A. R. Pierce	1st do.	42, 43	G. M., W. P. Briggs,		
Sea'n F. T. Roach	1st do.	42, 44	Jr.	3d do.	15, 15
Cox. D. G. F. Ward	1st do.	44, 48	Sea'n A. C. Blossom	3d do.	15, 16
" T. R. Almy, Jr.	2d do.	19, 20	" John J. Carroll	3d do.	15, 19
" James H. Coffin	2d do.	20, 22	" G. N. Case	3d do.	16, 16
" John Clark	2d do.	19, 19	" Joseph Carney	3d do.	16, 16
" James C. Dodge	2d do.	20, 21	Bug. Fred C. Graves	3d do.	17, 17
" George H. Dow	2d do.	20, 20	Sea'n F. G. Hillman	3d do.	16, 17
Ensign Fred. R. Fish	2d do.	20, 21	Sea'n E. H. Hinchley	3d do.	15, 18
Sea'n John K. Frank	2d do.	18, 18	B. M., W. E. Kern,		
Lt. G. N. Gardiner	2d do.	20, 20	Jr.	3d do.	15, 16
Sea'n Fred H. Geils	2d do.	18, 19	Sea'n J. N. McDonald		
" H. Howard, Jr.	2d do.	18, 19	Jr.	3d do.	16, 17
" D. T. Hillman	2d do.	18, 20	" John H. Smith	3d do.	15, 17
" H. H. Kimball	2d do.	21, 21	" Fred P. Tripp	3d do.	15, 17
" G. A. Luce	2d do.	18, 19	" F. H. Wilkie	3d do.	15, 15
" B. B. Lowden	2d do.	18, 19			
" T. E. McGowan,					
Jr.	2d do.	18, 18			

COMPANY H, NAVAL BRIGADE.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Sea'n Fred. C. Graves	D. M.,		47, 48, 47	Sea'n Chas. R. Combs	3d Class,		18, 15
Lt. H. S. Crossman	S. S.,		47, 50, 47	" W. I. Davis	3d do.		16, 17
Sea'n L. H. Perkins	S. S.,		45, 49, 49	Lt. J. K. Dexter	3d do.		15, 16
Ensign W. S. Barr	1st Class,		44, 44	Sea'n C. R. Euson	3d do.		15, 17
Cf. B. M. W. A. Brown	1st do.		43, 42	" W. W. Fowler	3d do.		15, 16
Bug. R. E. Mathewson	1st do.		45, 43	" Chas. A. Frazer	3d do.		15, 17
Sea'n A. J. Skinner	1st do.		43, 43	" A. Ingersoll	3d do.		15, 16
Sea'n R. T. White-				G. M., Fred T. Ley	3d do.		18, 15
house	1st do.		42, 46	Sea'n Harold A. Ley	3d do.		16, 15
B. M., H. D. Banks	2d do.		20, 22	" G. T. Murdough	3d do.		20, 17
Sea'n J. F. Bemies	2d do.		21, 23	" Wm. F. Mellowes	3d do.		16, 18
" F. H. Bowen	2d do.		20, 20	" Fred S. Murphy	3d do.		16, 18
" Florence S. Carr	2d do.		23, 21	" Fred. W. Newell	3d do.		17, 19
Ensign W. O. Cohn	2d do.		21, 21	" Edw. J. Pinney	3d do.		17, 17
Sea'n F. H. Colburn	2d do.		20, 21	" Reuben Roberts	3d do.		15, 15
" C. C. Gilbert	2d do.		18, 20	Q. M., E. E. Sawtell	3d do.		15, 16
" W. H. Gowdy	2d do.		18, 19	Sea'n Chas. S. Saxton	3d do.		16, 15
" Geo. H. Hadd	2d do.		21, 19	" W. J. Schlatter	3d do.		16, 20
" F. C. Hubbard	2d do.		18, 19	" Harry A. Squire	3d do.		16, 16
" Jas. E. Knox	2d do.		18, 18	" A. N. Stanley	3d do.		19, 16
Cox. Harry P. White	2d do.		20, 21	" Harry B. Trask	3d do.		15, 15
Sea'n D. C. Keeney	2d do.	Requal.		" Sam'l H. Trask	3d do.		19, 17
" Wm. S. Arms	3d do.		15, 16	" F. A. Wallace	3d do.		17, 15
" E. E. Bartlett	3d do.		16, 16	Cox. W. S. Warriner	3d do.		16, 17
" H. T. Breck	3d do.		17, 15	Lt. Fred. H. Weston	3d do.		17, 18
" M. B. Breck	3d do.		16, 17	Sea'n D. Chas. White	3d do.		15, 18
" James S. Burns	3d do.		18, 17	Sea'n Geo. F. Wright	3d do.		16, 17
" W. E. Clark	3d do.		18, 15				

FIELD AND STAFF, FIRST BATTALION CAVALRY.

Maj. H. G. Kemp	S. S.,	-	Lt. James W. Pierce	2d Class,	-
Q. M. Sgt. C. A. Dick-			Adj. F. L. Locke	2d do.	21, 21
inson	1st Class,	-	Lt. H. D. Litchfield	3d do.	16, 16
Lt. S. B. Newton	1st do.	-	Sgt. H. H. Green	3d do.	15, 15
Sgt. C. L. D. Park-			Surg. C. H. Cogswell	3d do.	-
hill	1st do.	-	Sgt. W. C. Wardwell	3d do.	-

TROOP A, FIRST BATTALION CAVALRY.

Sgt. W. H. Partridge	S. S.,	Requal.	Priv. F. R. Robinson	2d Class,	19, 20
Priv. E. W. Bettinson	S. S.,	-	" Frank A. Fisher	2d do.	19, 20
" Martin Binney	1st Class,	-	" A. L. Clough	2d do.	18, 20
" H. I. Jenkins	1st do.	-	" G. L. Wasgatt	2d do.	18, 20
Sgt. J. E. Staples	1st do.	-	Sgt. J. H. Blanchard	2d do.	19, 19
Mus. Charles Waugh	1st do.	-	Priv. George S. Ross	2d do.	19, 19
Sgt. Frank K. Neal	2d do.	-	Capt. D. K. Emerson	2d do.	18, 19
Priv. A. H. Hillers	2d do.	-	Lt. Oscar A. Jones	2d do.	18, 19
Corp'l G. H. Barney	2d do.	-	Priv. H. R. Molineux	2d do.	18, 19
Corp'l H. N. Richards	2d do.	-	" C. B. Sewall	2d do.	18, 18
Priv. D. D. Poole	2d do.	-	" A. D. Wain-		
Sgt. John M. Davis	2d do.	21, 22	wright	2d do.	-
Priv. Percival Gassett	2d do.	21, 22	" Frank M. Moore	2d do.	-
Corp'l W. J. Richard-			" Wm. Housman	3d do.	15, 16
son	2d do.	20, 21	" G. R. McMaster	3d do.	-
Priv. A. O. Tufts	2d do.	20, 21	" L. B. Lyman	3d do.	-
Lt. Doris A. Young	2d do.	19, 20			

TROOP D, FIRST BATTALION CAVALRY.

RANK.	NAME.	Record. Class.	Range Work. 1893.	RANK.	NAME.	Record. Class.	Range Work. 1893.
Priv. W. Alexander .	1st Class,	42, 44	Priv. T. J. Whelan .	2d Class,	21, 21		
Corp'l Oscar F. Cox .	1st do.	Requal.	Corp'l E. B. Stantial	2d do.	19, 20		
1st Lt. W. A. Perrins .	1st do.	Requal.	Corp'l W. D. Finnick	2d do.	19, 20		
2d Lt. J. F. Perrins, Jr.	1st do.	Requal.	Priv. S. C. L. Haskell	2d do.	19, 19		
Priv. W. H. Jackson	1st do.	-	Sgt. W. H. Kelly .	2d do.	18, 20		
Corp'l W. A. Hanlon	1st do.	-	Priv. H. L. Cook .	2d do.	18, 19		
Priv. Ed. Broders .	2d do.	-	Corp'l J. M. Stock .	2d do.	16, 19		
Sgt. J. L. Fairbanks .	2d do.	-	Priv. J. J. Keefe .	3d do.	16, 17		
Priv. J. F. Fitzgerald	2d do.	-	Priv. J. J. Brine .	3d do.	-		
Sgt. J. H. McCloskey	2d do.	-	Sgt. F. L. Ward .	3d do.	-		
Corp'l T. Lawrence .	2d do.	-					

TROOP F, CAVALRY.

Sgt. E. H. Keyes .	D. M.,	Requal.	Priv. P. S. Ward .	2d Class,	20, 20		
Priv. P. L. Piggott .	S. S.,	45, 48, 46	Corp'l G. E. Wilkins	2d do.	18, 20		
" W. Carl .	1st Class,	47, 43	Priv. J. H. Wilkins	2d do.	18, 20		
" L. J. Parkhurst	1st do.	47, 44	" J. H. Wilson .	2d do.	19, 20		
Sgt. C. F. Scribner .	1st do.	42, 43	" G. M. Wright .	2d do.	19, 20		
Capt. E. H. Shaw .	1st do.	43, 41	" E. F. Adams .	3d do.	15, 16		
Priv. P. J. Brennan .	1st do.	18, 18	Sgt. C. E. Bartlett .	3d do.	16, 16		
Asst. Surg. A. Howard	1st do.	-	Priv. E. A. Blaisdell	3d do.	16, 16		
Sgt. S. A. Bull .	2d do.	-	" P. P. Cummings	3d do.	15, 17		
Priv. John Fisher .	2d do.	-	" J. E. Harrington	3d do.	15, 16		
" G. W. Chamberlain,	2d do.	20, 20	" J. E. Hogan .	3d do.	15, 17		
" B. W. Chandler .	2d do.	18, 20	" F. W. Hogan .	3d do.	17, 19		
" A. E. Collins .	2d do.	18, 18	" J. E. Marshall .	3d do.	16, 18		
" John Finnegan .	2d do.	18, 18	" H. R. McCabe .	3d do.	16, 16		
" O. W. Fiske .	2d do.	18, 19	" Chas. McEnnis	3d do.	16, 16		
Sgt. H. V. Hildreth .	2d do.	20, 18	Corp'l W. Perham .	3d do.	16, 16		
Lt. A. R. Leighton .	2d do.	20, 19	Priv. D. A. Polley .	3d do.	15, 16		
Priv. Herbert H. Mills	2d do.	Requal.	Lt. W. J. Quigley .	3d do.	15, 15		
Corp'l J. J. Monahan	2d do.	19, 20	Priv. W. H. Quigley	3d do.	15, 16		
Sgt. D. W. Robbins .	2d do.	18, 18	" E. H. Shaw, Jr.	3d do.	15, 17		
Priv. E. W. Sweetser	2d do.	19, 20	" F. J. Vinal .	3d do.	16, 15		
Priv. E. L. Teabo .	2d do.	Requal.	" F. Whittier .	3d do.	18, 16		
Sgt. A. M. Warren .	2d do.	20, 20	Priv. Frank Healey .	3d do.	-		

BATTERY B, FIRST BATTALION LIGHT ARTILLERY.

Capt. L. G. Bigelow	2d Class,	-	Corp'l W. E. Sayles .	3d Class,	-		
Lt. J. Bruno, Jr. .	3d do.	16, 17	Priv. T. J. Carlson .	3d do.	-		
Lt. Wm. T. Gould .	3d do.	15, 15	" H. Clarkson .	3d do.	-		
Lt. H. W. Haynes .	3d do.	-	" F. E. Kibbie .	3d do.	-		
Corp'l C. A. French	3d do.	-	" E. W. Wheeler	3d do.	-		
Corp'l H. B. Lee .	3d do.	-					

BATTERY C, FIRST BATTALION LIGHT ARTILLERY.

Lt. C. F. Sargent .	1st Class,	-	Sgt. G. H. Seaverns	2d Class,	-		
Sgt. H. N. Coleman	2d do.	22, 21	Priv. J. J. Cady .	2d do.	-		
Sgt. W. McCreadle .	2d do.	19, 19	Capt. W. L. Stedman	2d do.	-		
Corp'l C. D. Morrill .	2d do.	19, 19	Corp'l E. N. Duches-				
" J. O. Hazen .	2d do.	19, 18	ney .	3d do.	17, 15		
" Fred E. Nash .	2d do.	19, 18	Corp'l D. F. Glavin	3d do.	15, 16		
" T. Hollows .	2d do.	19, 18	Priv. C. A. Salsbury	3d do.	15, 15		
Priv. W. A. Clarke .	2d do.	18, 20	Lt. G. A. Sanborn .	3d do.	-		

REVOLVER QUALIFICATIONS.

RANK.	NAME.	Organization.	Scores. Six Shots Each.
Col. W. L. Chase, I. G. R. P.,		Staff Commander-in-Chief, .	20, 21
Maj. C. W. Hinman, I. R. P.,		First Brigade, .	26, 27
Maj. F. H. Briggs, A. I. G.,		First " . . .	24, 24
Capt. A. N. Rantoul, . . .		Second " . . .	21, 23
Capt. Gordon Dexter, . . .		Second " . . .	25, 25
Maj. R. H. Morgan, . . .		First Regiment Infantry, .	23, 26
Capt. A. E. Perry, . . .		Co. E, First Regiment Infantry, .	22, 23
Capt. W. E. Lombard, . . .		B, " " " . . .	25, 26
Lt. Geo. F. Hall, I. R. P.,		Staff " " " " . . .	26, 27
" David Fuller, . . .		Co. M, " " " " . . .	21, 21
" A. P. Pope, . . .		E, " " " " . . .	24, 24
" J. E. Day, . . .		B, " " " " . . .	20, 21
" C. F. Nostrum, . . .		C, " " " " . . .	23, 25
" Sumner Palne, . . .		A, " " " " . . .	28, 28
" W. F. Borden, . . .		M, " " " " . . .	23, 23
" Marshall Underwood, . . .		B, " " " " . . .	21, 21
" W. J. Meek, . . .		F, " " " " . . .	22, 23
P. M. Sgt. Geo. R. Russell,		Headquarters First Reg't Infantry, .	29, 29
Sgt. Geo. Hollins, . . .		Co. M, First Regiment Infantry, .	20, 23
Corp'l J. W. Horan, . . .		M, " " " " . . .	20, 22
Priv. J. H. M. Sharples, . . .		M, " " " " . . .	23, 24
Col. E. P. Clark, . . .		Second Regiment Infantry, .	20, 21
Maj. David Clark, . . .		Second Regiment Infantry, .	24, 27
Lt. Sylvester S. Bumstead, I. R. P.,		Staff Second Regiment Infantry .	25, 28
Capt. Henry McDonald, . . .		Co. B, Second Reg't Infantry, .	26, 27
Lt. J. A. Stirling, . . .		B, " " " " . . .	20, 20
" E. T. Bridges, . . .		H, " " " " . . .	24, 27
" F. B. Felton, . . .		L, " " " " . . .	21, 23
" H. O. Hicks, . . .		M, " " " " . . .	20, 24
Maj. C. C. Foster, . . .		Staff Fifth Regiment Infantry, .	27, 28
Lt. R. B. Edes, I. R. P., . . .		Staff Fifth Regiment Infantry, .	26, 27
" C. E. Hamilton, . . .		Co. F, Fifth Regiment Infantry, .	24, 27
" J. A. Scott, . . .		Co. C, Fifth Regiment Infantry, .	23, 24
Col. Hedry Parsons, . . .		Sixth Regiment Infantry, .	22, 23
Capt. E. J. Gibon, . . .		Co. A, Sixth Regiment Infantry, .	22, 23
" H. G. Whitney, . . .		M, " " " " . . .	21, 24
" Geo. H. Priest, . . .		B, " " " " . . .	22, 23
Lt. J. W. Jones, I. R. P.,		Staff " " " " . . .	26, 26
Sgt. Maj. F. P. Valentine, . . .		Staff " " " " . . .	23, 25
Capt. E. W. M. Bailey, . . .		Co. B, Eighth Reg't Infantry, .	20, 20
" R. P. O'Reilly, . . .		G, " " " " . . .	20, 21
" H. M. Parsons, . . .		M, " " " " . . .	20, 21
Lt. C. F. Cook, I. R. P., . . .		Staff " " " " . . .	26, 26
" J. E. Higgins, . . .		Co. B, " " " " . . .	21, 23
" A. E. Tuttle, . . .		B, " " " " . . .	25, 25
" C. T. Hilliker, . . .		D, " " " " . . .	21, 22
" G. L. Marshall, . . .		M, " " " " . . .	21, 23
" Col. T. F. Edmonds, . . .		First Corps Cadets, . . .	21, 23
Capt. H. B. Rice, . . .		Co. D, First Corps Cadets, . . .	21, 32
Lt. W. A. Hayes, 2d, I. R. P.,		Staff " " " " . . .	20, 21
" L. H. Wightman, . . .		Co. A, " " " " . . .	20, 21
" W. B. Clarke, . . .		B, " " " " . . .	20, 21
Capt. C. W. Osgood, . . .		C, Second Corps Cadets, . . .	20, 21
Lt. W. H. Merritt, . . .		Staff " " " " . . .	21, 26
" Andrew Fitz, . . .		" " " " . . .	20, 24
" B. F. Packard, . . .		Co. B, " " " " . . .	20, 23
Sgt. Geo. E. Symonds, . . .		A, " " " " . . .	25, 25
Priv. C. E. Horton, . . .		C, " " " " . . .	20, 21
" W. G. Hussey, . . .		C, " " " " . . .	25, 25
" W. C. Sanborn, . . .		C, " " " " . . .	20, 20
Lt. Com. H. B. Denny, . . .		Headquarters Naval Brigade, .	24, 25
" H. N. Sweet, . . .		Headquarters Naval Brigade, .	23, 24
" W. A. Cary, . . .		Co. C, Naval Brigade, . . .	28, 28
" J. D. Munroe, . . .		F, " " " " . . .	22, 22

REVOLVER QUALIFICATIONS—Concluded.

RANK.	NAME.	Organization.	Scores. Six Shots Each.
Lt.	F. B. Parsons,	Co. D, Naval Brigade,	23, 25
"	H. W. Hervey,	G, Naval Brigade,	21, 22
"	E. H. Abbe,	Headquarters Naval Brigade,	20, 22
"	F. O. Blackwell,	Co. E, Naval Brigade,	26, 26
"	H. S. Crossman,	H, " "	20, 27
"	J. H. Dillaway,	B, " "	25, 26
"	E. P. Dodd,	Headquarters Naval Brigade,	23, 26
"	W. B. Edgar,	Co. F, Naval Brigade,	20, 20
"	G. S. Selfridge,	D, " "	21, 26
"	F. C. Watkeys,	C, " "	22, 24
Ens.	W. S. Barr,	H, " "	20, 26
"	J. C. Colt,	C, " "	22, 24
"	A. R. Pierce,	G, " "	20, 21
Cox.	L. French,	F, " "	22, 22
Qrmstr.	Willis Munro,	D, " "	25, 26
B. M.	G. I. Jones,	D, " "	24, 26
Qrmstr.	H. J. Ricketson,	G, " "	21, 21
G. M.,	E. H. Cook,	G, " "	21, 23
B. M.,	W. H. Beattie,	F, " "	22, 23
Sea'n	Owen Durfee,	F, " "	21, 21
"	C. A. Moore,	F, " "	20, 24
"	J. B. Richards,	F, " "	24, 25
"	J. F. Schmeiser,	D, " "	22, 22
"	E. E. Hills,	C, " "	21, 22
Capt.	L. G. Bigelow,	Battery B, First Batt. Artillery,	20, 21
Lt.	W. B. Walworth,	Battery B, First Batt. Artillery,	24, 26

FIRST BRIGADE.

	Distinguished Marksmen.	Sharpshooters.	First Class Marksmen.	Second Class Marksmen.	Third Class Marksmen.	Marksmen of Record.	Qualifications, 1898.
Field and staff, .	2	1	10	2	0	15	5
Signal Corps, .	1	1	2	13	7	29	19
Ambulance Corps, .	0	0	1	2	1	4	3
	3	2	13	17	8	48	27

Maj. C. W. Hinman, A. I. G. R. P.: Strength, 68; efficient, 43; efficient strength, 63.23 per cent.

FIRST REGIMENT INFANTRY.

Field and staff, .	3	5	8	6	2	19	14
Company A, .	0	3	6	11	20	40	39
Company B, .	1	8	11	41	15	76	76
Company C, .	0	3	6	11	19	39	36
Company D, .	0	1	3	18	33	55	45
Company E, .	2	13	10	32	14	71	71
Company F, .	0	2	9	22	21	54	47
Company G, .	0	0	1	6	28	35	33
Company H, .	0	0	4	15	13	32	23
Company I, .	1	4	9	25	19	58	58
Company K, .	0	2	3	11	12	28	13
Company L, .	1	2	4	13	21	41	28
Company M, .	0	6	11	16	24	57	53
	8	49	80	227	241	605	536

Lieut. George F. Hall, I. R. P.: Strength, 731; efficient, 605; efficient strength, 82.76 per cent.

SECOND REGIMENT INFANTRY.

Field and staff, .	4	3	5	3	5	20	19
Company A, .	0	5	4	18	35	62	61
Company B, .	2	4	11	35	14	66	66
Company C, .	1	13	2	18	22	61	61
Company D, .	0	13	4	15	17	49	44
Company E, .	1	5	9	13	18	46	46
Company F, .	1	1	3	31	9	45	36
Company G, .	0	3	5	34	24	66	65
Company H, .	0	3	2	12	29	46	46
Company I, .	0	0	4	7	32	43	43
Company K, .	0	8	14	17	16	55	55
Company L, .	2	2	8	24	21	57	49
Company M, .	2	5	5	20	23	55	52
	13	70	76	247	265	671	643

Lieut. S. S. Bumstead, I. R. P.: Strength, 707; efficient, 671; efficient strength, 94.91 per cent.

SIXTH REGIMENT INFANTRY.

	Distinguished Marksmen.	● Sharpshooters.	First Class Marksmen.	Second Class Marksmen.	Third Class Marksmen.	Marksmen of Record.	Qualifications, 1893.
Field and staff, . .	0	1	2	7	1	11	8
Company A,	4	5	7	26	21	63	63
Company B,	0	0	8	34	19	61	59
Company C,	0	7	10	22	12	51	42
Company D,	0	0	8	17	12	37	30
Company E,	0	0	4	33	28	65	65
Company F,	0	0	2	14	14	30	30
Company G,	1	2	6	24	18	51	46
Company H,	1	0	7	26	27	61	61
Company I,	0	7	9	32	18	66	66
Company K,	0	3	2	19	19	43	40
Company L,	0	0	5	13	26	44	40
Company M,	1	0	8	20	14	43	42
	7	25	78	287	229	626	592

Lieut. J. W. Jones, I. R. P.: Strength, 740; efficient, 626; efficient strength, 84.59 per cent.

SECOND BRIGADE.

Field and staff, . .	1	2	3	6	2	14	2
Signal corps, . . .	0	1	1	4	4	10	5
Ambulance corps, .	0	0	1	1	1	3	1
	1	3	5	11	7	27	8

Lieut. Robert B. Edes, Acting A. I. G. R. P.: Strength, 59; efficient, 27; efficient strength, 46.76 per cent.

FIFTH REGIMENT INFANTRY.

Field and staff, . .	3	1	3	6	3	16	9
Company A,	0	1	1	13	19	34	25
Company B,	1	1	9	21	25	67	35
Company C,	0	1	3	11	24	39	33
Company D,	0	0	3	10	19	32	27
Company E,	0	0	7	13	32	52	45
Company F,	0	5	5	17	13	40	40
Company G,	0	1	4	21	5	31	31
Company H,	0	2	4	22	13	41	32
Company I,	0	0	9	32	26	67	67
Company K,	0	0	0	15	14	29	23
Company L,	0	2	2	23	19	46	38
Company M,	0	0	3	22	17	42	32
	4	14	53	226	229	526	437

Lieut. Robert B. Edes, I. R. P.: Strength, 704; efficient, 526; efficient strength, 74.72 per cent.

EIGHTH REGIMENT INFANTRY.

	Distinguished Marksmen.	Sharpshooters.	First Class Marksmen.	Second Class Marksmen.	Third Class Marksmen.	Marksmen of Record	Qualifications, 1898.
Field and staff, . . .	1	0	1	12	5	19	14
Company A, . . .	0	0	1	8	14	23	20
Company B, . . .	0	11	5	14	22	52	51
Company C, . . .	0	0	0	11	13	24	18
Company D, . . .	2	2	5	16	8	33	32
Company E, . . .	0	4	7	10	12	33	27
Company F, . . .	1	1	7	29	14	52	47
Company G, . . .	0	16	11	25	13	65	65
Company H, . . .	0	0	2	15	12	29	27
Company I, . . .	0	6	6	19	19	50	50
Company K, . . .	0	0	1	24	13	38	34
Company L, . . .	0	2	12	19	15	48	45
Company M, . . .	0	4	4	23	19	50	34
	4	46	62	225	179	516	464

Lieut. Charles F. Cook, I. R. P.: Strength, 673; efficient, 516; efficient strength, 76.67 per cent.

NINTH REGIMENT INFANTRY.

Field and staff, . . .	0	2	0	6	4	12	8
Company A, . . .	0	0	0	13	33	46	27
Company B, . . .	0	0	0	5	27	32	30
Company C, . . .	0	0	0	6	11	17	15
Company D, . . .	0	0	0	9	28	37	37
Company E, . . .	0	2	1	9	43	55	55
Company F, . . .	0	2	9	25	22	58	57
Company G, . . .	0	1	2	15	13	31	28
Company H, . . .	0	0	3	8	10	21	19
Company I, . . .	0	0	0	9	19	28	27
Company K, . . .	0	0	6	12	26	44	44
Company L, . . .	0	4	11	19	13	47	45
Company M, . . .	0	0	4	14	29	47	47
	0	11	36	150	278	475	439

Lieut. John Breen, I. R. P.: Strength, 683; efficient, 475; efficient strength, 69.54 per cent.

FIRST CORPS CADETS.

Field and staff, . . .	1	1	3	3	2	10	8
Company A, . . .	1	1	4	18	6	30	19
Company B, . . .	2	3	4	25	7	41	28
Company C, . . .	0	3	6	19	15	43	31
Company D, . . .	1	7	10	26	15	59	49
	5	15	27	91	45	183	135

Lieut. Wm. A. Hayes, 2d, I. R. P.: Strength, 225; efficient, 183; efficient strength, 81.33 per cent.

SECOND CORPS CADETS.

	Distinguished Marksmen.	Sharpshooters.	First Class Marksmen.	Second Class Marksmen.	Third Class Marksmen.	Marksmen of Record.	Qualifications, 1893.
Field and staff, . . .	1	0	0	2	4	7	3
Company A, . . .	2	2	5	9	0	18	18
Company B, . . .	0	3	4	11	8	28	19
Company C, . . .	5	5	5	16	8	39	31
Company D, . . .	2	2	5	20	9	38	34
	10	12	19	58	29	128	105

Lieut. W. H. Merritt, I. R. P.: Strength, 205; efficient, 128; efficient strength, 62.44 per cent.

NAVAL BRIGADE.

	0	6	7	12	7	32	26
Field and staff, . . .	0	0	1	14	22	37	28
Division A, . . .	0	4	5	28	11	48	48
Division B, . . .	0	8	6	28	13	55	55
Division C, . . .	0	2	3	24	17	46	39
Division D, . . .	0	3	9	25	20	57	57
Division E, . . .	0	10	9	34	7	60	60
Division F, . . .	0	5	11	27	14	57	57
Division G, . . .	0	5	11	27	14	57	57
Division H, . . .	1	2	5	13	33	64	54
	1	40	56	205	144	446	424

Lieut. H. W. Sweet, I. R. P.: Strength, 459; efficient, 446; efficient strength, 97.17 per cent.

FIRST BATTALION CAVALRY.

	0	1	3	2	4	10	4
Field and staff, . . .	0	2	4	22	3	31	21
Troop A, . . .	0	0	6	13	3	22	12
Troop D, . . .	0	3	13	37	10	63	37

Lieut. H. D. Litchfield, I. R. P.: Strength, 169; efficient, 63; efficient strength, 37.28 per cent.

TROOP F, CAVALRY.

	1	1	5	21	18	46	42
	1	1	5	21	18	46	42

Strength, 79; efficient, 46; efficient strength, 58.23 per cent.

FIRST BATTALION LIGHT ARTILLERY.

	0	0	0	1	10	11	2
Battery B, . . .	0	0	0	11	4	15	11
Battery C, . . .	0	0	0	12	14	26	13

TABLE A. Consolidated Report—Efficients, M. V. M.

ORGANIZATION.	Distinguished Marksmen.	Sharpshooters.	First Class Marksmen.	Second Class Marksmen.	Third Class Marksmen.	Marksmen of Record.	Qualifications, 1898.	PERCENTAGE OF EFFICIENCY MARKSMEN.	
								Of Record.	In Record. 1898.
Commander-in-Chief and Staff,	1	0	1	10	4	16	8	-	-
1st Brigade Staff, Signal and Ambulance Corps, . . .	3	2	13	17	8	43	27	-	-
1st Regiment Infantry, Lieut. George F. Hall, I. R. P., . . .	8	49	80	228	241	605	536	82.76	73.32
2d Regiment Infantry, Lieut. S. S. Bumstead, I. R. P., . . .	13	70	76	247	265	671	643	94.91	90.95
6th Regiment Infantry, Lieut. J. W. Jones, I. R. P., . . .	7	25	78	287	229	626	592	84.59	80.00
Troop F, Cavalry, . . .	1	1	5	21	18	46	42	58.23	53.16
2d Brigade Staff, Signal and Ambulance Corps, . . .	1	3	5	11	7	27	8	-	-
5th Regiment Infantry, Lieut. Robert B. Edes, I. R. P., . . .	4	14	53	226	229	526	487	74.72	62.06
8th Regiment Infantry, Lieut. Charles F. Cook, I. R. P., . . .	4	46	62	225	179	516	464	76.67	68.94
9th Regiment Infantry, Lieut. John Breen, I. R. P., . . .	0	11	36	150	278	475	439	69.54	64.23
1st Battalion Cavalry, Lieut. H. D. Litchfield, I. R. P., . . .	0	3	13	37	10	63	37	37.28	21.89
1st Corps Cadets, Lieut. Wm. A. Hayes, 2d I. R. P., . . .	5	15	27	91	45	163	135	81.33	66.06
2d Corps Cadets, Lieut. W. H. Merritt, I. R. P., . . .	10	12	19	58	29	128	105	62.44	51.22
Naval Brigade, Lieut. H. W. Sweet, I. R. P., . . .	1	40	56	205	144	446	424	97.17	92.37
1st Battalion Light Artillery, . .	0	0	0	12	14	26	18	-	-
Totals,	58	291	524	1,825	1,700	4,397	3,910	-	-

TABLE B. Comparative Efficiency.

	CLASSES OF MARKSMANSHIP.					MARKSMEN.		EFFICIENCY.	
	Distinguished Marksmen.	Sharpshooters.	First Class.	Second Class.	Third Class.	Of Record.	Who did Range Work 1898.	Of Record.	In 1898.
1st Brigade, Maj. C. W. Hin- man, A. I. G. R. P.: Strength, 2,587; marksmen, 2,018, . . .	32	147	252	812	775	2,018	1,853	78.16	71.82
2d Brigade, Lieut. R. B. Edes, Acting A. I. G. R. P.: Strength, 2,518; marksmen, 1,807, . . .	9	77	160	649	708	1,607	1,386	63.82	55.00

TABLE C. *The Aggregate Results, as compared with Previous Years, are,—*

	1882.	1883.	1884.	1885.	1886.	1887.
Number qualified or requalified during year,	234	509	644	878	1,159	1,647
Marksmen in service close of year,	288	545	795	1,058	1,449	1,897

TABLE C. *The Aggregate Results, etc. — Concluded.*

	1888.	1889.	1890.	1891.	1892.	1893.
Number qualified or requalified during year,	1,786	2,040	1,551	2,383	2,925	3,910
Marksmen in service close of year,	2,336	2,610	2,459	2,828	3,401	4,397

REVOLVER QUALIFICATIONS, M. V. M., 1893.

	Commander-in-Chief and Staff.	First Brigade Staff.	First Regiment Infantry.	Second Regiment Infantry.	Sixth Regiment Infantry.	Battery B, First Battalion Light Artillery.	Second Brigade Staff.	Fifth Regiment Infantry.	Eighth Regiment Infantry.	First Corps Cadets.	Second Corps Cadets.	Naval Brigade.	Total.
Staff,	1	2	3	3	3	2	2	2	1	2	2	4	-
Company A,	-	-	1	0	1	-	-	0	0	1	1	0	-
Company B,	-	-	3	2	1	-	-	0	3	1	1	1	-
Company C,	-	-	1	0	0	-	-	1	0	0	4	4	-
Company D,	-	-	0	0	0	-	-	0	1	1	-	5	-
Company E,	-	-	2	0	0	-	-	0	0	-	-	1	-
Company F,	-	-	1	0	0	-	-	1	0	-	-	7	-
Company G,	-	-	0	0	0	-	-	0	1	-	-	4	-
Company H,	-	-	0	1	0	-	-	0	0	-	-	2	-
Company I,	-	-	0	0	0	-	-	0	-	-	-	-	-
Company K,	-	-	0	0	0	-	-	0	0	-	-	-	-
Company L,	-	-	0	1	0	-	-	0	0	-	-	-	-
Company M,	-	-	5	1	1	-	-	0	2	-	-	-	-
Total,	1	2	16	8	6	2	2	4	8	5	8	28	90

REGIMENTAL COMPETITIONS.

COMPANY TEAM OF SEVEN, TEN SHOTS AT 200 YARDS.

First Regiment Infantry, August 26. The Regimental Trophy (engraving), "En Batterie," was won by Company B, with a score of 278 out of a possible 350.

Company C,	268	Company L,	242
Company I,	266	Company F,	241
Company A,	266	Company H,	223
Company M,	263	Company D,	207
Company E,	260	Company G,	196
Company K,	257		

Second Regiment Infantry, September 15. The Regimental Trophy (engraving), "1806," was won by Company M, with a score of 294 out of a possible 350.

Company B,	292	Company C,	268
Company G,	275	Company K,	262
Company E,	274	Company H,	262
Company D,	274	Company I,	250
Company L,	273	Company A,	249
Company F,	273		

Fifth Regiment Infantry, September 21. The Regimental Trophy (engraving), "Le Bourget," was won by Company G, with a score of 268 out of a possible 350.

Company I,	268	Company C,	224
Company F,	253	Company M,	206
Company H,	244	Company K,	198
Company B,	242	Company D,	176
Company E,	235	Company A,	132
Company L,	233		

Sixth Regiment Infantry, September 22. The Regimental Trophy (engraving), "Washington and His Generals," was won by Company A, with a score of 299 out of a possible 350.

Company H,	296	Company E,	254
Company C,	278	Company K,	250
Company I,	276	Company L,	248
Company B,	265	Company F,	248
Company D,	261	Company G,	231
Company M,	261		

Eighth Regiment Infantry, August 28. The Regimental Trophy (engraving), "Attaque Imprévue," was won by Company D, with a score of 216 out of a possible 350.

Company B,	212	Company K,	181
Company G,	210	Company I,	179
Company M,	208	Company H,	141
Company L,	189	Company C,	123
Company F,	189	Company A,	97
Company E,	182		

Ninth Regiment Infantry, September 1. The Regimental Trophy (engraving), "Oh Sont Ils? Les Voilà!" was won by Company L, with a score of 273 out of a possible 350.

Company F,	261	Company E,	188
Company K,	229	Company A,	180
Company G,	229	Company H,	175
Company M,	198	Company I,	149
Company B,	189	Company D,	107

First Corps Cadets, July 14. The Corps Trophy (engraving), "Napoleon," was won by Company D, with a score of 268 out of a possible 350.

Company B,	260	Company C,	245
Company A,	250		

Second Corps Cadets, September 4. The Corps Trophy (engraving), "Sault aux Blessés," was won by Company C, with a score of 288 out of a possible 350.

Company D,	253	Company B,	254
Company A,	254		

Naval Brigade, September 2. The Brigade Trophy (engraving), "Wreck of H. M. S. Birkenhead," was won by Company H, with a score of 271 out of a possible 350.

Company C,	269	Company G,	222
Company E,	268	Company A,	205
Company F,	258	Company D,	194
Company B,	256		

Cavalry Battalion (teams of six), September 26. The Battalion Trophy (engraving), "Rencontre d'un Officier Blessé," was won by Troop F, with a score of 223 out of a possible 300.

Troop A,	186	Troop D,	176
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The State General Competition took place October 2. The competition comprised firing seven shots at 200 and 500 yards. Individual trophies, recognized by medals, were won as follows:—

SHARPSHOOTER CLASS.

First Prize.—Sergt. W. E. Sweetser, Company H, Sixth Regiment Infantry, score 61.

Second Prize.—Sergt. D. M. Bruce, Company C, Second Corps Cadets, score 60.

Third Prize.—Lieut. F. B. Felton, Company L, Second Regiment Infantry, score 58.

Fourth Prize.—Sergt. E. E. Baudoin, Company E, First Regiment Infantry, score 58

Fifth Prize.—Priv. C. A. Hinds, Company E, Second Regiment Infantry, score 58.

FIRST-CLASS MARKSMEN.

First Prize.—Priv. G. E. Worthen, Jr., Company D, Second Corps Cadets, score 60.

Second Prize — Seaman F. C. Graves, Company H, Naval Brigade, score 59.

Third Prize. — Priv. P. A. Mansfield, Company H, Sixth Regiment Infantry, score 58.

THE STATE TEAM.

The twelve competitors making the highest aggregate scores were as follows:—

Sergt. W. E. Sweetser, Company H, Sixth Regiment Infantry,	. . . 61
Priv. G. E. Worthen, Jr., Company D, Second Corps Cadets,	. . . 60
Sergt. D. M. Bruce, Company C, Second Corps Cadets,	. . . 60
Corp. J. L. Gibbs, Company E, First Regiment Infantry,	. . . 60
Sergt. W. D. Huddleson, Company L, First Regiment Infantry,	. . . 59
Sergt. G. E. Symonds, Company A, Second Corps Cadets,	. . . 59
Seaman F. C. Graves, Company H, Naval Brigade,	. . . 59
Priv. P. A. Mansfield, Company H, Sixth Regiment Infantry,	. . . 58
Bugler P. S. Killam, Company A, Sixth Regiment Infantry,	. . . 58
Lieut. F. B. Felton, Company L, Second Regiment Infantry,	. . . 58
Sergt. G. E. Worthen, Company D, Second Corps Cadets,	. . . 58
Capt. R. A. Whipple, Company M, Second Regiment Infantry,	. . . 58

The Sixth Regiment Infantry, by virtue of its team making the best score at the State General Competition, is entitled to carry the tri-color on its colors for the year 1894.

The Distinguished Marksman Competition took place October 3. This competition comprised firing seven shots at 200, 500 and 600 yards, and estimating distances at seven halts. Competitors who made the three highest scores won medals.

First Prize. — Priv. C. A. Hinds, Company E, Second Regiment Infantry,

$$81 + 31 + 32 + 22 = 116.$$

Second Prize. — Priv. C. E. Horton, Company C, Second Corps Cadets,

$$27 + 30 + 31 + 27 = 115.$$

Third Prize. — Sergt. W. H. Bean, Company D, Second Corps Cadets,

$$26 + 31 + 25 + 28 = 110.$$

The following competitors made 100 points and over in this competition:—

Priv. W. G. Hussey, Company C, Second Corps Cadets,	. . . 107
Priv. J. H. Keough, Company A, Sixth Regiment Infantry,	. . . 106
Sergt. W. E. Sweetser, Company H, Sixth Regiment Infantry,	. . . 105
Bugler P. S. Killam, Company A, Sixth Regiment Infantry,	. . . 105
Capt. R. A. Whipple, Company M, Second Regiment Infantry,	. . . 105
Lieut. W. H. Merritt, I. R. P., Second Corps Cadets,	. . . 104
Sergt. G. E. Symonds, Company A, Second Corps Cadets,	. . . 104
Priv. E. Dimock, Company C, Second Corps Cadets,	. . . 103
Corp. J. L. Gibbs, Company E, First Regiment Infantry,	. . . 103
Corp. F. P. Smith, Company B, First Corps Cadets,	. . . 103
Sergt. E. E. Baudoin, Company E, First Regiment Infantry,	. . . 102
Lieut. J. A. Sterling, Company B, Second Regiment Infantry,	. . . 102
Lieut. F. B. Felton, Company L, Second Regiment Infantry,	. . . 100
Sergt. W. D. Huddleson, Company L, First Regiment Infantry,	. . . 100

COLUMBIAN EXPOSITION.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, June 30, 1893.

To His Excellency the Governor and Honorable Council.

I have the honor to submit to your honorable body the following report of my action under your direction by letter of May 28, 1893, in connection with the State delegation to the World's Exposition, at the World's Fair, Chicago, to celebrate "Massachusetts Day," June 17, 1893, having been selected for that purpose and appropriation made by chapter 88 of the Resolves of the Legislature of 1893.

Upon receipt of my instructions I visited Chicago and made necessary arrangements and reported progress, my action being approved by you.

The delegation left Boston via the Fitchburg Railroad at 10 A.M. on Monday, June 12, and arrived in Chicago Tuesday, June 13, before 6 P.M. They were quartered at the Auditorium Hotel.

June 14, 15, and the day of the 16th was spent by the delegation in sight-seeing, and on the evening of June 16 a banquet was given by the State to the officials of the Exposition and prominent business men of Chicago.

On the 17th the ceremonies of Massachusetts Day were conducted under the direction of the Massachusetts commissioners at the Massachusetts building.

On the evening of the 17th the Massachusetts Society in Chicago entertained the delegation at a banquet at the Auditorium Hotel.

On Sunday, June 18, at 4.30 P.M., the delegation took train for the homeward trip, arriving at Niagara Falls on the 19th at 9 A.M., eight hours being allowed to visit them and carriages being provided.

The delegation arrived in Boston on the morning of June 20 at 9 o'clock.

Bills for all expenses have been forwarded to the State auditor for audit.

A copy of itinerary and all papers connected with the trip has been forwarded to the State library.

A copy of itinerary and badge has been forwarded to the Massachusetts Historical Society.

Many letters were written and many received. Circumstances of which I had not control required a great deal of additional work by myself and clerks, two entire nights being devoted to preparation of arrangements.

All correspondence, contracts, etc., are on file in this department, with schedule of bills attached.

Amount of appropriation by resolve, . . .	\$12,000 00
Total expenditure,	10,691 41
Unexpended balance,	<u>\$1,308 59</u>

I have attached to this report a corrected list of the delegation. Those who were unable to attend are marked by a star.

Respectfully submitted,

SAMUEL DALTON,
Adjutant General.

The following is the State representation under resolve of Legislature. Those designated by * were unable to attend. Those designated by † joined at Chicago: —

His Excellency WILLIAM E. RUSSELL, Governor of the Commonwealth.

Governor's Staff — Col. Michael T. Donahoe; Col. Spencer Borden, Col. D. Howard Vincent; Col. James E. Delaney; Col. John T. Wheelwright; Col. Henry D. Andrews; Col. John H. Cunningham; Col. James L. Carter; Col. James H. Carmichael; Col. Horace B. Verry.

Ex-Governors of Massachusetts. — Hon. George S. Boutwell; * Hon. Nathaniel P. Banks; † Hon. William Claflin; * Hon. William Gaston; * Hon. Alexander H. Rice; Hon. John D. Long; Hon. George D. Robinson; * Hon. Oliver Ames; * Hon. John Q. A. Brackett.*

Hon. Alfred S. Pinkerton, President of the Senate.

Hon. William E. Barrett, Speaker of the House.†

Executive Council. — His Honor Roger Wolcott, Lieutenant Governor; * Hon. Ziba C. Keith, † 1st District; Hon. David Hall Rice, † 2d District; Hon. Joseph R. Leeson, † 3d District; Hon. James Donovan, 4th District; Hon. Arthur B. Breed, † 5th District; Hon. Luman T. Jefts, † 6th District; Hon. George F. Morse, 7th District; Hon. Elisha Morgan, 8th District.

† Vacancy filled by Representative G. S. Jewett.

Special Committee of Senate. — Senators William F. Ray, E. P. Shaw, P. J. Kennedy, H. S. Milton, E. S. Horton, W. P. Buckley, Abraham C. Ratschesky, F. T. Berry.

Special Committee of House. — Representatives Wellington E. Parkhurst, Dwight Chester, George A. Galloupe, J. J. McCarthy, L. H. Bartlett, W. H. Brigham, Eugene J. O'Neill, C. H. Holmes, Warren Hoyt, Emery M. Low, John W. McEvoy, Charles P. Rugg, E. A. Bessom, M. C. Cook, Augustus M. Nickerson, Edward F. Blodgett, William Moore, Michael J. O'Brien, Hugh McLaughlin, B. J. Sullivan.

J. G. B. Adams, Sergeant-at-Arms; Henry D. Coolidge, Clerk of Senate; Edward A. McLaughlin, Clerk of House.

In Charge of Delegation. — Major General Samuel Dalton.

Surgeon to Delegation. — Brigadier General Thomas Kittredge, Surgeon General.

State Color Bearer. — Sergeant Fred. B. Carpenter, 1st Corps Cadets, M. V. M.

Edward F. Hamlin, Messenger to Council; John F. Shaw, in charge of baggage.

James R. Watson, Esq., of Fitchburg system, and C. E. Lambert, Esq., of West Shore system, accompanied the delegation.

ENCAMPMENTS.

REPORTS OF COMMANDING OFFICERS.

HEADQUARTERS SECOND BRIGADE, M. V. M.,
BOSTON, Aug. 1, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General State of Massachusetts.*

GENERAL:—In accordance with General Orders No. 6, C. S., I have the honor to submit the following report of the tour of camp duty of this brigade for the year 1893.

I assumed command of the State camp ground on the morning of Monday, July 17.

Battery A, Capt. D. H. Follett, came on to the field early in the day, having been transported by rail from Boston instead of marching over the road as was contemplated.

The Eighth Regiment of Infantry, Lieut. Col. Charles L. Dodge commanding, reported to me on the forenoon of the same day, having been ordered to parade for the duty required by law in excess of the five days' camp duty.

The Battalion of Cavalry, Major H. G. Kemp, arrived about the middle of the afternoon, having marched from Boston to exemplify the movement of a body of cavalry through an enemy's country.

The Fifth Regiment of Infantry, Col. W. A. Bancroft, came into camp by companies during the afternoon and evening, so that at least three-fourths of the entire command were in camp at tattoo on Monday; the remainder reported promptly at 12 o'clock noon on Tuesday, in accordance with orders.

I believe much benefit is derived by the troops being in camp in excess of the five days as now provided, and therefore renew my recommendations of former years that the Legislature be asked to provide that the annual tour of camp duty be increased to six days, believing that if troops were paid for six days' camp duty, they would be willing to report at the camp on Saturday, and be

in readiness to commence Monday morning with the regular daily drills.

The weather during the week was good; although very warm, the duties were regularly performed; the heavy rain of Tuesday evening had the effect to keep the ground in good condition for the remainder of the week.

The health of the command was excellent during the entire tour of duty, which I attribute to improved diet.

Military courtesy was well observed, sanitary condition of camp excellent, discipline properly maintained, with the exception of Friday night, when the good record of the camp in this respect was marred by the discharge of guns or fire-crackers by thoughtless men in companies where the officers are either inefficient or are willing to condone such breaches of discipline. In my opinion, company officers with a disposition to prevent this evil can do so.

Good progress was made in handling troops under the drill regulations adopted last year, although but little time was available for movements in extended order. It is hoped that at the next encampment more time can be devoted to this important work, and that during the winter months the companies comprising the command will take advantage of the opportunities afforded to acquire a proper knowledge of guard duty, as the failure to procure guard manuals until late in the present year did not give the men sufficient time to acquire full knowledge of this duty before the encampment.

I trust before the camp of 1894 takes place there will be a prescribed method for the arrangement of the inside of tents, which will add greatly to the appearance of the camp.

With thanks to the officers and men who have so faithfully labored to advance the standard of the brigade,

I have the honor to remain,

Your obedient servant,

BENJ. F. PEACH, Jr.,

Brigadier General.

HEADQUARTERS FIRST BRIGADE, M. V. M.

Maj. Gen. SAMUEL DALTON, *Adjutant General Massachusetts, Boston, Mass.*

SIR:—I have the honor to submit the following report of the encampment of the First Brigade, M. V. M., at Framingham, from June 5 to June 10 inclusive.

In compliance with your orders, I assumed command of the grounds on Monday morning, the 5th inst. During the early part

of the day quite a number, including employees, from the several organizations were on the field preparing the camp for the balance of their commands, most of which were to reach the field during the evening. Although no notice, official or unofficial, had been received at these headquarters that their arrival might be expected before 10 o'clock P.M., of the 5th, nearly the entire command was under canvas.

It is a great pleasure for me to say that, under these circumstances, after taps the field was one of the most orderly I have ever commanded, and with pride I commend it, in this respect, as meriting a place in the records of this Commonwealth for the perfect harmony and earnest endeavors of all under my command to perform their duties in a manner creditable to themselves and to the State.

I think it reflects great credit to the militia that there was not recorded a single person, who was a member of the brigade, as being confined in the guard-house or sick in the general hospital during the entire time that the brigade was on the field. There was great interest in the more important duties of a soldier. The extended order received much more attention than heretofore, and officers were well able to instruct.

I cannot close without acknowledging my great obligations to His Excellency, the Commander-in-Chief, for the deep interest he manifested in the welfare of the troops, also to the Inspector General's department.

I am, very respectfully,

Your obedient servant,

B. F. BRIDGES,

Brigadier General.

HEADQUARTERS FIRST CORPS OF CADETS, M. V. M.,
BOSTON, July 17, 1893.

Maj Gen. SAMUEL DALTON, *Adjutant General of Massachusetts.*

GENERAL:—I have the honor to report that my command left Boston by special train on the Old Colony Railroad at 2.55 o'clock P.M., Saturday, July 8, for Hingham, Mass., where it went into camp. The duty of July 8 and 9 was performed by my order. July 10 was the day of annual drill. July 11 to 15 inclusive was the camp tour according to law. The corps left Hingham at noon on Saturday, July 15, and at 1.40 o'clock reached its armory in Boston, where it was dismissed.

The weather during the tour was very favorable for duty, the only interruption to which was by rain, which prevented the per-

formance of inspection and muster and battalion parade on the 12th inst. With this exception, the prescribed routine was followed throughout the tour.

On Tuesday, July 11, His Honor Lieutenant Governor Wolcott visited the camp and reviewed the corps in the afternoon.

The command was honored and pleased by the presence of General Dalton, Adjutant General, during the encampment, and the evident interest taken by him in all that was done gave great encouragement.

Maj. Marcus P. Miller, Fifth United States Artillery, detailed by the War Department to inspect and report upon the camp, was a most welcome guest for the second time. He observed the duty of every day, and was very kind in giving information upon customs of the service in many cases where we could not otherwise have obtained it when most needed.

Col. W. L. Chase, detailed as inspector for the State, was zealous, vigilant and painstaking in his observation of every detail, showing at the same time a kindness and consideration which made his presence a pleasure.

The attendance, of which a table is appended, was the largest ever known at camp in the history of the corps, and permitted the detail of a guard large enough to do all its duty without calling upon supernumeraries, as we have been compelled to do in former years by reason of our small numbers.

The guard was instructed with much care in the new manual. Particular attention was given to the instructions for sentinels on post, which were memorized, and while nearly all the men were able to recite them without omitting or misplacing a word, I found no sentinel who could not repeat them correctly in substance.

General drill, care of quarters, police, courtesy and discipline were all carefully attended to as in the past, officers and men working faithfully to maintain the standard now well established. The non-commissioned officers deserve a special word of praise for being more efficient in this camp than I have ever known them to be before. The addition of second lieutenants to the company officers was of great benefit in affording relief to the line officers heretofore overworked in camp.

The camp ground remains the same as last year, with the single addition of a small building between the workshop and sink for the storage and care of lanterns.

The camp was pitched substantially as last year, the width of the company streets being slightly increased. A simple lamp post of wrought iron pipe was placed at each end of each company street, and bore a kerosene street lantern. These lights burning

in the evening until tattoo lighted the body of the camp very satisfactorily.

On the whole, I consider the tour just ended as the most successful in my experience with the corps.

I am, very respectfully,

Your obedient servant,

THOMAS F. EDMANDS,

Lieutenant Colonel Commanding.

Enclosure : report of surgeon.

Record of Attendance in Camp at Hingham, Mass., July 8 to 15, 1893.

IN CAMP. 1893.	PRESENT.					ABSENT.					PRESENT AND ABSENT.		
	DUTY.		SICK.		Total.	WITH LEAVE.		WITHOUT LEAVE.		Total.	PRESENT AND ABSENT.		Aggregate.
	Officers.	Enlisted Men.	Officers.	Enlisted Men.		Officers.	Enlisted Men.	Officers.	Enlisted Men.		Officers.	Enlisted Men.	
July 8, .	19	171	-	-	190	1	14	-	23	38	20	208	228
July 9, .	19	173	-	-	192	1	15	-	20	36	20	208	228
July 10, .	19	179	-	-	198	1	14	-	15	30	20	208	228
July 11, .	19	177	-	2	198	1	15	-	14	30	20	208	228
July 12, .	19	181	-	-	200	1	14	-	13	28	20	208	228
July 13, .	19	184	-	-	203	1	14	-	10	25	20	208	228
July 14, .	19	185	-	-	204	1	14	-	9	24	20	208	228
July 15, . .	19	183	-	-	202	1	15	-	9	25	20	207	227

* These figures do not include a band of 24 men, enrolled but not mustered.

THOMAS F. EDMANDS,
Lieutenant Colonel Commanding.

HEADQUARTERS SECOND CORPS CADETS,
SALEM, Aug. 21, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General of Massachusetts.*

GENERAL : — I have the honor to submit the following report of the annual drill and encampment of this command, which was held in obedience to General Orders No. 6, A. G. O., Boston, March 31, 1893, at Centennial Grove, Essex, from the seventh to the twelfth day of August, inclusive.

The command assembled at the armory on Essex Street, where line was formed at 8.30 o'clock A.M. and marched to the depot in column of platoons. At the depot a special train was found waiting, and in order and without undue haste was boarded and in a few moments started for Essex.

The camp ground was reached about 10 o'clock and the command marched on the parade ground, where, after a few words from the commanding officer, were dismissed.

The entire encampment (with the exception of the hospital tent) was put up on Saturday and Sunday by a camping party under the direction of a commissioned officer, and the assignment to quarters and disposal of personal baggage, together with work incident to general arrangements pertaining to the comfort of the corps, was all completed by 12 M.

Just before noon a lively thunder shower set in and lasted nearly an hour.

Immediately after dinner preparations were made for guard mounting, the ceremony taking place at 2 o'clock.

Monday was the annual drill day in addition to the other five days' service, and consequently Colonel Carter of the Inspector's Department (who met us at the depot in Salem) was present to witness the drills during the week.

Battalion drill, inspection, muster and battalion drill followed. All these were very creditable, considering it was our first day in camp.

Tuesday morning, with reveille, the camp duties formally opened. The weather during the week was extremely warm.

Tuesday, 8th, to Saturday, 12th, inclusive, counted as five days of camp duty, according to law.

Tuesday forenoon Adjutant General Dalton, accompanied by Major Miller of the Fifth United States Artillery, arrived in camp, and remained with us during the week to observe the discipline, drill and general efficiency of the corps. He left on Saturday forenoon in company with Colonel Carter. Owing to official business General Dalton was obliged to leave the camp on Friday afternoon.

His Excellency Governor Russell visited the camp on Thursday forenoon, accompanied by Colonel Cunningham of his staff. At 2.30 P.M. he reviewed the corps. The weather being so warm battalion drill was (by order of the Commander-in-Chief) dispensed with, and no further duty was performed until inspection and muster at 4.30.

No target practice was had in camp this year, as the rifle range was considered unsafe by a board of officers appointed by Colonel Chase, Inspector General of Rifle Practice.

There were but few men reported off duty from sickness during the whole tour of duty. Private Foster of Co. D, while drilling with his company on Wednesday, was accidentally shot in the neck by the discharge of a rifle in the hands of the corporal in charge of his squad. He was immediately taken to the hospital, and under the surgeon's directions placed under the influence of ether, in order that the wounds might be properly attended to. He remained in the hospital but one day.

The attendance at camp this year was the largest ever shown in the history of the corps; officers and men tried hard to do their duty as they understood it.

Present for Duty.

	Officers.	Men.	Band.	Total.
Monday,	18	151	24	193
Tuesday,	19	155	24	198
Wednesday,	19	156	24	199
Thursday,	19	159	24	202
Friday,	19	160	24	203
Saturday,	19	159	24	202

Saturday forenoon we commenced to break camp, and by 2 o'clock P.M. the tents were rolled, and all State property was safe aboard the cars.

The command left the camp ground at 2.30 o'clock, the 12th inst., when the colors were struck, and the third encampment of the corps under its present commander closed, and I regard it one of our most successful tours of duty.

The command arrived in Salem at about 3.30, and concluded the week's work with a battalion parade on the Common in the presence of a large number of citizens.

I desire to express my appreciation of the support I have received from the officers and men of the command in my efforts to promote the interests of the corps. To Adjutant General Dalton, Colonel Carter and to Major Miller, I am under many obligations for valuable suggestions.

I have the honor to be, very respectfully,

Your obedient servant,

JOHN W. HART,
Lieutenant Colonel Commanding.

HEADQUARTERS NAVAL BRIGADE, M. V. M.,
BOSTON, Dec. 13, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General of Massachusetts.*

GENERAL:—I have the honor to submit the annual report of the operations of the Naval Brigade.

During the winter months the exercises were continued in the armories, special attention being given to instruction in infantry exercises, fencing and field-gun practice. In the spring months the instruction was given in street exercise, boat exercise, including rowing, torpedo practice and boat-gun drill, with drill at the heavy guns and instruction in marline-spike seamanship.

A company was mustered in in Springfield on March 6. The organization of eight companies having been completed the elections were held on March 20, which completed the organization of the brigade. In April the command having been invited to visit New York, and in conjunction with the First Naval Battalion, N. G. S. N. Y., to take part in ceremonies of the naval review in New York harbor, the tour of duty was fixed for April 25 to 29, inclusive. The first day of the tour the whole command was quartered and messed in the armory, and the time was devoted to instruction and drill. The next day the command proceeded to Providence by rail with six companies of infantry and a battery of four guns, and embarked on board the steamer "Connecticut," on board of which vessel the command was quartered during its stay in New York. On Thursday the different companies were assigned to patrol duty on board the patrol vessels in New York harbor, and on Friday the brigade was landed for a parade on shore with the Naval Brigade of the fleet and the National Guard of New York. The command returned to Boston on Saturday, the 29th.

During the entire time the discipline maintained by the command was excellent, and they showed proficiency in all their work both ashore and afloat.

In July the Navy Department having assigned the North Atlantic squadron, under Rear Admiral Benham, for the drill of the brigade, on July 18 they were embarked on board the "San Francisco" and "Miantonomah." Unfortunately the department was not able to furnish enough vessels to embark the whole command, the "San Francisco" taking twelve officers and two hundred and fifty men from A, B, E, F, G and H companies; and the "Miantonomah," seven officers and fifty men from C and D companies. In making the selection it was necessary to take those who had had the least experience on board a man-of-war, but it

was peculiarly unfortunate that sufficient quarters could not be furnished, as none of the junior officers could obtain any of the benefits on account of the crowded condition of the "San Francisco."

The men performed all the duties of the crews of the vessels, and they did the duty remarkable well, especially when it is considered that most of them were performing this duty for the first time. They stood watch and watch the whole time, kept the ships in order, cleaned decks, took care of the battery, and in every way performed their duties better than a fresh crew taken out of the receiving ship could have done.

I append a record of the target practice, which shows considerable proficiency. The tour of duty lasted four days, and during the whole of the time the squadron was at sea. The men subsisted on the navy rations.

During the month of September, the department having assigned the "Passaic" for service, on four Saturdays the members of the First Battalion were taken to sea for target practice, thus giving an opportunity for sea drill to those who were not able to be embarked with the squadron. In these drills fifty-four officers and one hundred and twenty men took part, so that during the summer seventy-three officers and four hundred and twenty men had more or less drill on board a vessel at sea. In the case of the officers a number went out every time on board the "Monitor," and they were instructed in the pilotage of the harbor.

In the fall the armory drills were resumed, and they have been prosecuted continuously.

It is difficult to make recommendations about the drill afloat where so much depends upon the good will of the Navy Department. I do not think that the drills on board of such a vessel as the "San Francisco" particularly valuable, as a great deal of time is wasted in the performance of duties which are of no use whatever as instruction, and which this summer's experience shows could be learned in a single day. The most important drill for this command afloat is to be found on board of harbor-defence vessels and torpedo boats. These are the vessels on board of which the command would be required to serve, but it is difficult to obtain such vessels; still I hope that the time may come when the summer tour of duty can be performed on board of such vessels in the waters of the lower harbor or in adjacent parts of the State. The ceremonies and forms incident to service on board of large men-of-war in commission use up time which could better be devoted to practical instruction in turret-guns, boat-guns and torpedoes.

Rifle practice has been carried on during the year with diligence, and the qualifications in the different companies show ninety per cent. for marksmen for 1893, and marksmen of record, ninety-five per cent. The merit marks are as follows: A, 70; B, 146; C, 169; D, 113; E, 157; F, 202; G, 178; H, 144; to this systematic instruction I attribute the excellent practice made by the guns of the main and secondary batteries. It would add to the efficiency of the command if the "Passaic" could be placed at our disposal for drill during the summer when the days are longer, and the weather generally better than in the month of September when we are likely to be obliged to work at serious disadvantage. It would be of great value if the department could be induced to give greater facilities for torpedo instruction, as that is the best practice of all for this command. So far the only practice is what we have been able to make with improvised materials.

I recommend that the surgeon of the brigade be given the rank of lieutenant commander; it is the same rank held by the surgeons of infantry regiments, and it was by an oversight that he was given rank in a lower grade when the original bill was submitted.

I recommend that the armory range in the South Armory be put in order for use. During the short time which we have been able to use it it has been invaluable in giving the necessary instruction to prepare men for work at the butts, and it is especially valuable in saving ammunition and giving opportunity for frequent instruction during the winter.

I recommend that the act be amended allowing battalions or portions to be assembled for drill with transportation allowance, as is permitted in the infantry regiments. This will permit the outlying divisions to be brought in for service on board the "Monitor."

Very respectfully,

JOHN C. SOLEY,
Captain, Chief of Brigade.

ANNUAL DRILLS.

REPORTS OF COMMANDING OFFICERS.

HEADQUARTERS FIRST REGIMENT INFANTRY,
FIRST BRIGADE, M. V. M., SOUTH ARMORY,
BOSTON, MASS., Dec. 30, 1893.

Gen. SAMUEL DALTON, *Adjutant General State of Massachusetts.*

GENERAL:— In accordance with General Orders No. 11, A. G. O., current series, the various companies of the regiment I have the honor to command were ordered to assemble at Taunton, Oct. 9, 1893, at 10 A.M., for the purpose of holding the fall drill. Companies A, B, C, D, G, H, K and L embarked at 8 A.M. on a special train of thirteen cars from the Park Square station of the New York, New Haven & Hartford Railroad. The embarkation was quickly made and train started promptly on schedule time. The run to Taunton was made in one hour. A guard was placed at each car door; no passing to and fro of enlisted men was permitted and no accident occurred.

The eight Boston companies, together with Company I of Brockton, which had connected with the regimental train at Easton, were disembarked at Whittenton Junction, two miles outside the city of Taunton, and the march commenced through a sparsely settled, wooded country for the objective point, Taunton, where a junction was to be made with the three remaining companies of the regiment, E, F and M. Company I, Capt. Charles Williamson, was detailed as advance guard; Company K, Capt. Geo. F. Quinby, as rear guard; Company G, Capt. A. B. Chick, and Company L, Capt. F. M. Whiting, as flankers.

The companies detailed performed their respective duties in a satisfactory and practical manner. After a march of two miles a junction was made with Companies E, F and M. The regiment went in bivouac at 10.45 A.M.; hot coffee was served at 11 A.M., the actual field operations commencing at 11.30 A.M. The field of

action was the "Duvo! Farm" of about forty-five acres, admirably adapted for military manoeuvres, being varied in its topography by a succession of hills (one commanding the other), swamp, field and woodland.

The regiment was divided in two equal parts, Lieutenant Colonel Hovey taking command of six companies and acting on the defensive, the Colonel, commanding six companies, making the attack. Lieutenant Colonel Hovey showed excellent judgment in the disposition of his forces, posting them in a semi-circle on the summit of three ridges that could not possibly have been captured in actual conflict except by a vastly superior force. The attacking party was deployed under cover of the thick woods. An attack was made by four companies, under Maj. P. A. Dyar, on the left wing of Colonel Hovey's forces, pending a flanking movement, by Maj. Chas. Pfaff with two companies on the defending force's right wing. This movement was not a success, Colonel Hovey's position being too strong; in fact, impregnable from a direct attack. A weak spot was developed by Major Dyar's attack on Colonel Hovey's extreme left, the reserves were sent in, and Colonel Hovey having sent the larger portion of his force to repel the attack on his right, the defending line was forced back until their left wing was turned; the fire of the attacking party under Major Dyar enfilading the line of defence, rendering the position from a strictly military standpoint untenable.

The order was then sounded to "cease firing" and the engagement was ended. The regiment was reformed and the remaining ammunition expended in firing at will.

The regiment then returned to the Agricultural Fair Ground, where dinner was served at 1.30 P.M., it being furnished through the liberality of the city government of Taunton. The ceremony of guard mounting was exemplified by Company F, Capt. N. O. Danforth, at 3 P.M., in a most satisfactory and efficient manner. A review and dress parade was held at 3.30 P.M., complimentary to His Honor the Mayor and the members of the Taunton city government. The march to the station through the principal streets of the city was then taken up, the regiment arriving at the depot at 5.30 P.M. The embarkation was quickly made, the train starting at 6 P.M., arriving in Boston at 7.15 P.M., when the regiment was dismissed.

The tour of duty as a whole was a marked success; the officers and men were thoroughly interested, and I am bound to believe a tour of duty of this kind is more instructive as an object lesson in practical military work, tending as it does to develop the individuality of all engaged, officers and men alike, than a week at camp

with the ordinary routine of garrison life ; and I emphatically endorse the plan of fall drills, as at present conducted, as field operations, and trust they may be continued. The discipline of the command was excellent, no straggling of any kind being observed. The strength of the regiment deserves special mention, being seven hundred and twenty-four, the largest number the organization ever turned out at a fall drill since I have been in command. I would respectfully request and urge upon the military department of the State the necessity of furnishing a larger amount of blank ammunition. It would seem to the Colonel commanding as though organizations should not be called upon to furnish themselves with seven thousand rounds of ammunition, as was the case with this regiment, to make an ordered tour of duty in the field practicable and efficient. We had the pleasure of the company and benefit of the council and advice of Col. William L. Chase, Inspector General, on this tour of duty.

Very respectfully yours,

THOMAS R. MATHEWS,
Commanding First Regiment of Infantry.

HEADQUARTERS SECOND REGIMENT INFANTRY,
FIRST BRIGADE, M. V. M.,
SPRINGFIELD, MASS., Sept 25, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General.*

SIR :— I have the honor to submit the following report of the annual drill of this command at Northampton, on the 21st inst.

The regiment assembled in Northampton at 10 o'clock A.M. in heavy marching order, and immediately marched to the drill ground, about a mile and a quarter from the station.

Knapsacks, haversacks and canteens were laid aside, and work in the extended order began.

Battalion commanders were directed to follow the same order of work given to them at the annual drill last year, to wit: to first assemble the officers and non-commissioned officers, and question and instruct them in the work of the squad, section, platoon, company and battalion, and then to exemplify the work in regular order from the squad to the battalion.

This work was done with commendable thoroughness in most organizations, and although there was at times some indecision in the movements, there was evinced a general and more advanced knowledge of the extended-order drill.

In battalion work this was more noticeable, and compared with the work done at the last annual drill, an improvement was noted.

The use of blank ammunition in the battle exercises added greatly to the interest and stimulated officers and men to be alert and earnest in their work.

It is important in the battle exercises that blank cartridges should be frequently used ; in fact, it is almost impossible to teach men the all-important rules of fire discipline without using them ; therefore I desire to record my conviction that far greater benefits would result from such a tour of duty as this if the allowance of blank ammunition to each regiment was increased to twelve thousand rounds.

At 3 o'clock full dress uniforms were put on and the regiment marched into town, and after a short parade passed in review before the mayor and members of the city government, after which regimental parade was held in the presence of several thousand people.

Discipline throughout the day was excellent, and the strength of the regiment was 45 officers and 596 men, a total of 641.

I am, very respectfully,

Your obedient servant,

EMBURY P. CLARK,

Colonel Commanding.

HEADQUARTERS FIFTH REGIMENT OF INFANTRY,
SECOND BRIGADE, M. V. M.,
BOSTON, Oct. 17, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General.*

SIR :— In accordance with General Orders No. 11, and S. O. No. 105, C. S., A. G. O., this regiment performed its annual drill in the town of Braintree on Sept. 28, 1893. The several companies, with the exception of D and K, responded promptly at the railroad station, Kneeland Street, so that the train, consisting of eleven passenger and three freight cars, the latter taking the horses, left promptly on the scheduled time, 9.20 A.M.

Braintree was reached in twenty minutes, and there the band and drum corps, with Companies D and K, reported. Knapsacks containing dress coat and helmet and with great coat strapped thereon were deposited in the armory of Company K, and the regiment was immediately marched to the edge of a vacant tract of land about one mile in length and one-half mile in width, of uneven surface, and generally covered with a low growth of trees and high bush. A detail of eight men from each company was ordered to report to Lieutenant Colonel Frost, and to him there

also reported Chaplain Barrows, Paymaster Warren and Paymaster Sergeant Cabot and Lieutenants Kincaid, Phillips, Whiting and Bray.

The plan of manœuvres was the obstruction offered to the head of an advancing column (the regiment) by the rear guard (Colonel Frost's detachment) of a larger body. Colonel Frost's men turned their blouses inside out to distinguish them from the rest of the regiment. An ammunition wagon was assigned to Colonel Frost, and one also to each of the three battalions of the regiment. Two other wagons were supplied as ambulances, and a detachment of the brigade ambulance corps was divided between the two bodies, Dr. Chase remaining with the main body, and the hospital steward going with the detachment. During the forenoon, Sergeant Cahill of Company K fell over a log and broke his leg, and another man was slightly burned by the discharge of a rifle in the bush.

After manœuvring across the territory selected, the troops were drawn up beside a road and were given an hour for rations carried in haversack and canteen. In the afternoon the movements were repeated in re-crossing the field. After street firing in street column, the regiment was marched to the armory and changed to full dress uniform, heavy marching order. A street parade was made to a vacant lot, where evening parade was held. A fine engraving presented by the friends of Company K was awarded to Company I for its general military excellence during the day.

Colonel King, of His Excellency's staff, accompanied the regiment, and during the day were present Colonel Chase, also of the staff; Colonel Bogan, Ninth Infantry; Lieutenant Fry, Naval Brigade staff, and Dr. Clark, Ambulance Corps, Second Brigade. The several companies, with the exception of D and K, and the horses were loaded aboard the train and were ready to start for Boston at 5.15 P.M., at which time the train left. The regiment reached Boston at 5.40. The arrangements made by the N. Y., N. H. & H. R. R. were satisfactory and admirably carried out. The weather was fine, the behavior of the men excellent, and I am sure the day's duty was profitable. The officers of the regiment are indebted to the honorary members of Company K for a substantial lunch at its armory in the afternoon.

Very respectfully,

Your obedient servant,

WM. A. BANCROFT,
Colonel.

HEADQUARTERS SIXTH REGIMENT INFANTRY,
FIRST BRIGADE, M. V. M.,
MARLBOROUGH, Oct. 12, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General, M. V. M.*

GENERAL : — In accordance with General Orders No. 112, A. G. O., C. S., I have the honor to submit the following report of the annual drill of the Sixth Regiment Infantry at Fitchburg, Oct. 11, 1893.

In compliance with General Orders No. 11, headquarters of Sixth Infantry, Oct. 4, 1893, Companies A, H and L reported to Major Taylor at Fitchburg Railway station, in Boston, at 7.50 A.M.

Owing to delay by railway officials, they were unable to embark as promptly as they would have done had the cars been ready. They were joined by Company I, at Concord Junction, on arrival of the train. Companies C and G, with Assistant Surgeon Porter, took a special train from Lowell on the Boston & Maine Railway, and connected with the Fitchburg train at Ayer Junction, arriving at South Fitchburg at 9.20 A.M.

Companies M and E took a special train at South Framingham at 7.45 A.M., on the New York, New Haven & Hartford Railroad, Northern Division, and were joined at Marlborough Junction by the regimental commander, commissioned and non-commissioned staff, Company F and band. These were met at South Fitchburg by Company K, which, accompanied by Major Chaffin, had left Southbridge at 6 A.M., via New York & New England Railroad to Worcester, thence to South Fitchburg via Boston & Maine and New York, New Haven & Hartford railroads, arriving at 9.20 A.M.

Companies B and D, with Surgeon Rice, marched from Fitchburg to South Fitchburg, where they were joined by Companies E and M, under command of Major Darling, who reported to Lieutenant Colonel Woodward on the Bemis road near the fair grounds. These constituted the defending forces. Blank ammunition was issued to the troops on the train en route to Fitchburg, great care being taken that no ball cartridges were in possession of the men.

The ground selected for the manœuvres had been personally visited by the regimental officers, and was well adapted for practical movements. It was covered with scrub oak and heavy underbrush, divided by nearly impossible ravines, flanked on the east by a swamp and on the west by a river, while on the north, in the rear of the position chosen for the defence, was a high hill which commanded a view of all the approaches, with the exception of one on the right flank of the attacking force.

The two battalions, under Majors Chaffin and Taylor, were selected to make the assault. They marched to a position hidden from the view of the defending force. The officers of the attacking force were then assembled, the plan of the attack explained, and a map of the ground, drawn by Lieutenant Devlin, given to the battalion commanders. These officers were instructed not to allow, under any circumstances, their forces to advance to a point nearer than twenty paces from the defending force. This order was strictly observed.

The first battalion, under command of Major Chaffin, moved to the right, and platoons from each of the companies were advanced in extended order under cover of the woods. The remaining platoons were kept as support and reserves, but were brought into action in the final assault. The centre and Bemis road were held by Company L.

Lieutenant Devlin, with a detachment of Company F, was ordered to take a long detour through the thick woods, his flank and rear being protected by an impassable swamp, and make a feint on the rear of the left of the defending force. The opening of fire by Lieutenant Devlin's detachment was the signal for Major Chaffin to throw his whole force on Colonel Woodward's left flank. This movement was successfully executed, thus completely flanking the lines of the defence. As soon as Major Chaffin had commenced the attack, a rocket was sent up as a signal for Major Taylor to advance the second battalion from under cover of an embankment, and engage the enemy's right. A sharp skirmish fire immediately commenced. This was returned by a volley from Colonel Woodward's force, which was strongly intrenched in the woods. The centre was advancing too fast, and a halt was called by the commanding officer in order to correct the alignment. This being done, the final attack was ordered. The line advanced steadily, Major Taylor driving the right of the defending troops from their position, while Major Chaffin, having flanked their left, cut off their retreat. Colonel Woodward, being overpowered, raised the white flag and surrendered, which terminated the engagement.

It is gratifying to state that all the manœuvres were executed without a single accident. A map of the battlefield accompanies this report.

Colonel Keeler and Lieutenant Colonel Parker acted as umpires. Captain Cutter was officer of the day, and, with a detachment of his company, guarded the wagon train. At the close of the engagement he was ordered forward.

The assembly was then sounded, the line formed, and the regiment marched to the fair grounds, where water and towels were

provided for and freely used by the men. They partook of a hearty meal from their haversacks, the city of Fitchburg furnishing coffee. At that time His Honor Mayor Lowe and the city government invited the colonel commanding, his field and staff officers, together with General Bridges, Colonel King, Assistant Inspector General, Colonel Keeler and Lieutenant Colonel Parker and Captain Lathrop to dine with them as guests of the city of Fitchburg in the dining-hall at the fair grounds.

At 2 P.M. the assembly was sounded, the regimental line formed and marched to the city, about two miles distant. General Bridges and members of his staff accompanied the regimental commander on the line of march. On reaching the American House, street riot drill was executed in square formations according to paragraph 367, but did not occupy the sidewalks, as Company I was deployed as sharpshooters to act there, and they covered the houses on both sides of the street. After advancing in this formation for some distance, the regiment was formed in column of companies. On reaching a cross street, the first company divided, one platoon turning to the right, the other to the left, and held the streets, while the regiment advanced to the next, where the second company performed the same movement that the first had executed. This was repeated by the other companies in turn.

The regiment was then marched to the Common, where a regimental parade was held. After that ceremony, marksmen were presented with medals won at regimental rifle practice. The regiment was then addressed by General Bridges and the chaplain. Then the command was formed in column of companies and mustered for pay. On the line of march to the railway station, Mayor Lowe was tendered a marching salute at City Hall. A like courtesy was also extended to General Bridges.

On reaching the railway station, the troops were quickly, and in good order, embarked.

The regimental commander is pleased to report that throughout the day excellent order and discipline were maintained, for which he received the warmly expressed congratulations of his military guests, of Mayor Lowe and of the other city officials. Much credit is due to the officers of the regiment for their hearty co-operation with the colonel commanding.

Thanks are due to the mayor and city government of Fitchburg for the generous courtesies tendered on this occasion.

Very respectfully, your obedient servant,

HENRY PARSONS,
Colonel Commanding.

HEADQUARTERS EIGHTH REGIMENT INFANTRY, M. V. M.,
SALEM, Oct. 1, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General State of Massachusetts.*

GENERAL:—I have the honor to report that in pursuance of Special Orders No. 51, A. G. O., C. S., this regiment performed its annual drill at South Framingham on Monday, July 17, last.

In compliance with General Order No. 8, these headquarters, commanders of companies, with their commands in fatigue dress and heavy marching order, drum major, band and drum corps in fatigue dress, were ordered to report to the adjutant upon the train conveying the regiment. Field and staff reported to the commanding officer upon arrival of the train at South Framingham.

The schedule time at which the companies were to embark was punctually followed, no time being lost, as some attention had been paid to this, both in assignment of cars and manner of entering (by the rear), and disembarking (from the front).

The time for arrival at and departure from Somerville, 9.25 A.M., where we were to take the Boston & Albany track, via the Grand Junction, was quite closely followed. From this point to our destination was where the greatest loss of time occurred, from which cause we were twenty minutes late in arriving at South Framingham. It would have been impossible, however, had the train been on schedule time, to have arrived at our destination at 10 o'clock, the hour at which we were ordered to report.

Upon arrival of the train, no time was lost, and without delay the regiment disembarked, formed, and immediately took up its march, and in about thirty-two minutes from our arrival at South Framingham I reported upon the State camp grounds with a total strength of 700, officers and men. Line was formed, after which the regiment was dismissed.

Promptly at 2.30 (the regular guard details having been previously prepared) the ceremony of guard mounting was held, and, with the exception of a few errors, was fairly performed; the regular guard was posted, and this portion of the week's duties begun. At 3.30 battalions were assembled and companies were dismissed to their commanders for drill, followed by battalion drill until 5 o'clock P.M., when they were dismissed. Regimental parade and muster for pay completed the duties of the day.

The first night in camp, which really was a part of the annual drill, passed off quite satisfactorily; retreat roll call was prompt, and found every man present, and taps found the camp quiet.

At 5.45 A.M., on the 18th, reveille was sounded; companies responded promptly, and formations were well and promptly

performed, rolls called and reports made; after which the usual customs prevailed. Guard mounting was performed at 8.30, followed by company and battalion drills from 9.30 till 11.30, which concluded the duties of our annual drill, which, upon the whole, was quite satisfactory, its beneficial effects being made manifest in the work of the five succeeding days.

I am, very respectfully, your obedient servant,

CHARLES L. DODGE,

Lieutenant Colonel Commanding.

HEADQUARTERS NINTH REGIMENT INFANTRY, M. V. M.,
BOSTON, Oct. 14, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General.*

DEAR SIR:—I have the honor to report that, in accordance with General Order No. 11, C. S., A. G. O., dated Aug. 24, 1893, the Ninth Regiment of Infantry performed its annual drill at Boston, October 5.

Pursuant to General Order No. 4, from the headquarters, dated Sept. 9, 1893, the several companies of the regiment were ordered to report at the regimental armory, East Newton Street, at 9.30 A.M.

Regimental line was formed at 10 o'clock, and we left the armory soon after, making a parade through the following streets: East Newton, Washington, Summer, High, Pearl, Milk, Broad, State, Washington, School and Beacon to the Common, where we disposed of dress coats and knapsacks, formed line and marched to Beacon, Arlington, Marlborough and Gloucester streets back to Beacon, where we formed street columns.

The first battalion halted and formed square at Exeter Street, and second battalion at Fairfield Street, third battalion at Gloucester Street. Each battalion fired four volleys, after which we formed street column and marched to Charles Street, where we broke into column of fours to enter the Common, which was about 1 P.M., and we dismissed for dinner.

After dinner, about 2.15 P.M., all non-commissioned officers had squad drills by signals.

The extended order was exemplified by placing Company B on the defensive, using knapsacks for cover; Company H on the offensive. They manœuvred three-quarters of an hour, and were relieved by Company D in defence, and Company I on the offence, using blank cartridges and being instructed not to approach one another nearer than fifty feet.

First battalion formed line, broke into column of fours, took double time and formed street column, formed square and fired three volleys kneeling, and retired.

Second battalion formed line, took double time, fired three volleys and retired.

Third battalion, in column of fours, double time, formed street column and square and fired three volleys, then retired.

The regiment was then formed for regimental parade, after which they formed in column of companies and passed in review under command of non-commissioned officers. Roll was then called, and companies were dismissed at 5.30 P.M.

Colonel Chase, Assistant Inspector General, accompanied us on this tour of duty and gave some valuable suggestions, for which we are grateful.

I am, very respectfully,

Your obedient servant,

FRED B. BOGAN,

Colonel.

HEADQUARTERS FIRST BATTALION CAVALRY,
SECOND BRIGADE, M. V. M.,
BOSTON, July 26, 1893.

Maj Gen. SAMUEL DALTON, *Adjutant General, M. V. M.*

GENERAL:— I have the honor to report on the annual drill of my command as follows:—

Special Orders No. 51, A. G. O., granted permission to hold the drill on the day preceding the annual tour of camp duty, and to make the drill a route march to South Framingham.

In accordance with Battalion Orders No. 3, the command reported at the Irvington Street Armory, mounted, in fatigue uniform, at 7 o'clock A.M. The battalion was immediately formed in column of fours, and march taken up for South Framingham. The route of march was: Huntington Avenue, Falmouth Street, Westland Avenue, Back Bay Park, Commonwealth Avenue, Brighton Avenue, and Washington Street to Brighton, Washington Street through Newton, Newtonville, West Newton and Lower Falls to Wellesley Hills; thence by the old Worcester turnpike to the camp ground.

The headquarters and each troop were allowed a wagon for the transportation of rations and baggage. These were placed in rear of the command, under direction of quartermaster sergeants and escorted by a small guard commanded by a sergeant.

Immediately on leaving the city, the battalion was divided up

into squads of about eight men each, under the command of a non-commissioned officer. These squads were thoroughly practised in the school of the trooper, officers superintending the instruction of the squad leaders. Particular attention was given to handling horses and to horsemanship.

The command was dismounted at Newton, 9.05 A.M., and horses led for five minutes. Shortly after 11 A.M. the troops were united and squadron formation assumed. Halt was made at 11.25 A.M. for dinner. The horses were picketed on a side road just beyond Wellesley Hills. Rations were issued for horses and men, and horses fed under the immediate care of their riders while eating their own dinners. Dinner over, and a short time allowed for policing the grounds and packing feed bags, picket lines, etc., the march was resumed at 12.35 P.M.

At this point advance and rear guards were thrown out. A flanking detachment was also directed to make a detour to the south and move along a parallel road, rejoining the main body just before entering camp.

Col. William L. Chase, Inspector General of Rifle Practice and Acting Inspector General, accompanied the battalion as inspecting officer. The command is indebted to him for his kindly interest and valuable suggestions. Colonel Chase accompanied the flanking party in the afternoon. Lieutenant Chase, Assistant Surgeon, Fifth Infantry, joined the command on the road, and very kindly accepted an invitation to accompany the flankers as medical officer. The thanks of the command are due Lieutenant Chase for this volunteer duty.

On resuming the march after dinner, the main body moved forward in squadron formation, the principles of the route march being observed. The men were dismounted at 1.15 P.M., and horses led five minutes. "Halt" was sounded at 1.20 P.M., and, after five minutes' rest, "Forward." "Halt" again at 2.15 P.M. to 2.35 P.M., just before entering camp. Advance and rear guards were called in, the flanking party rejoined, the command moved forward at "Attention," entering the camp ground at 2.50 P.M.

The strength of the command was: field and staff, 7 officers and 5 men; Troop A, 3 officers and 53 men; Troop D, 3 officers and 55 men; total, 13 officers and 113 men. The strength was reduced by the usual preliminary camp detail of 1 officer and 14 men.

Very respectfully, your obedient servant,

HORACE G. KEMP,
Major.

TROOP F, CAVALRY, FIRST BRIGADE, M. V. M.,
WESTFORD, MASS., July 1, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General, M. V. M.*

GENERAL:—I have the honor to submit the following report of the annual field day of this command, held on June 5 at the State camp ground, Framingham, in accordance with Special Order No. 51, C. S., A. G. O.

Nearly all of the men were in camp the night previous to the day's duty, and were ready for drill at 10 o'clock, which was a mounted drill of over an hour. After dinner had two hours' drill by company and platoon movements. Horses were inspected by veterinary surgeon of the artillery. I think this is the best annual drill the company ever had, and the best results obtained, as it gave good preparation for the remainder of the week.

I have the honor to be, very respectfully,

Your obedient servant,

HORACE W. WILSON,
Captain, Troop F, Cavalry.

FIRST BATTALION LIGHT ARTILLERY, FIRST BRIGADE, M. V. M.,
LAWRENCE, MASS., Dec. 19, 1893.

Maj. Gen. SAMUEL DALTON, *Adjutant General.*

GENERAL:—I have the honor to submit my report of the fall field day of my command, June 3, 1893, by Batteries B, of Worcester, on the road from Worcester to South Framingham, and C at the State camp ground,—the latter reaching that point by rail from Lawrence.

I would earnestly recommend that the annual drill now performed by batteries, in such city as each may be located, always unsatisfactory to everybody, as well as expensive to the State, be suspended; and that, instead, both batteries be ordered to rendezvous at some place on the coast, dismounted, with two field pieces and two Gatlings, for the purpose of practising with fixed ammunition. For this purpose, tents should be provided, so that two or three days could be spent profitably. Should the State pay for one or two days' time, with mileage, I am sure the officers and men would remain longer under practice, at their own expense.

I am of the opinion that the duty now performed is useless, as the time required to horse the batteries, with its necessary labor, and the constant diversion of officers' and drivers' attention to "green" horses, takes far too much time away from drill. The

day is profitable neither for the command nor the State. Furthermore, target practice is essential as much in artillery as other branches. I consider the batteries well up in general drill, and what is most needed to perfect the service is the abandonment of unnecessary expense in mounted "one day parades," and the placing of the money so expended into practical work.

Respectfully, your obedient servant,

L. N. DUCHESNEY,

Major.

GENERAL ORDERS AND CIRCULARS.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Jan. 17, 1893.

GENERAL ORDERS, No. 1. *

I. The following is published for the information of the militia :—

EXECUTIVE DEPARTMENT, BOSTON, Jan. 17, 1893.

Upon the report and recommendations of the Inspector General's department and the Adjutant General, the following-mentioned petition for a company to be attached to the militia of the Commonwealth is hereby approved, and the same will be mustered into the military service of the State, viz : Herbert W. Fay and others of South Framingham.

(Signed) W.-E. RUSSELL,
Governor and Commander-in-Chief.

II. Col. Henry Parsons, commanding the Sixth Infantry, will arrange for the muster-in of the new company at South Framingham on Monday evening, Jan. 23, 1893.

He will detail a medical officer of his command for the examination of all men enlisting on the above evening. Upon the muster-in of the company, the usual notice to electors being waived, the election of company officers may be held, Col. Henry Parsons presiding.

III. The new company will be attached to the Sixth Infantry and be known as Company E of that command.

By order of the Commander-in-Chief,

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Jan. 27, 1893.

GENERAL ORDERS, No. 2.

I. The Massachusetts Volunteer Militia will the present year be inspected in armories between February 1 and April 15. Regi-

mental commanders of infantry, battalion commanders of artillery, cavalry, cadet corps and naval battalions will personally inspect the companies of their respective commands. Unattached companies and signal corps will be inspected by the assistant inspectors of brigade; ambulance corps by the medical directors of brigade.

II. The companies will be thoroughly inspected, and when incompetent or neglectful commissioned officers are found, such will be requested to resign, or an application be made that they may be ordered before the Board of Military Examiners. Inefficient non-commissioned officers will be reduced to the ranks.

III. Company commanders will be instructed that the allowance provided by law for repairs must be expended in necessary repairs to clothing and equipment of the commands, and in fitting and cleansing uniforms.

IV. The inspection will include the records and the financial condition of the companies. The property in possession of the companies having already been examined by the Quartermaster's department, the inspectors will not be required to verify the same.

V. Upon completion of the inspections the inspectors will make report on blanks, which will be furnished from this office, in which the attendance must be accurately stated in each command, in order that the allowances based on average attendance at tours of duty may be determined. Report will also be made on the condition and fitness of armories, and what amount is considered as a reasonable allowance for the rental of each.

Reports will be made in duplicate, one to be forwarded to brigade commanders and one to the Adjutant General for the information of the Inspector General's department.

VI. Companies found below the standard of efficiency will be reported, and will receive the attention of the Inspector General's department.

VII. Companies will be inspected separately. One day's special-duty pay will be allowed inspecting officers for each company inspected.

Mileage will be paid on quarterly returns of visits to companies, and will count as one of the visits allowed by law. Assistant inspectors and medical directors of brigades will be allowed one day's special-duty pay and mileage.

By order of the Commander-in-Chief,

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Feb. 1, 1893.

GENERAL ORDERS, No. 3.

The Target Season of 1893, now open, will close October 31.

I. AMMUNITION.

Upon receipt of requisitions of commanding officers and company commanders, duly certified by the Inspector of Rifle Practice, on the blanks provided, there will be set aside for each headquarters and company armed with the rifle or carbine one box, 500 rounds, Frankfort ammunition.

The complete and incomplete score cards will be preserved and considered in the allowance of the State appropriation for ammunition.

On further requisition of company commanders, carrying endorsement of the Inspector of Rifle Practice, accompanied either by paid bills as vouchers of actual expenditure for reloading ammunition or by the certification of the company commander on the blanks furnished for such purpose, allowance of \$20, the equivalent of 1,500 rounds reloaded ammunition will be granted.

On further like requisition, a second allowance of \$20 will be granted in the same manner.

All bills under this order must be forwarded to be received not later than October 31.

Regimental, corps and battalion inspectors will confer with company commanders as to securing reliable ammunition at the best advantage.

II. ARMORY WORK.

Preliminary instruction must precede any firing.

Companies should be exercised in aiming drill to secure steadiness, quick response to command and fire discipline.

Particular attention must be paid to recruits and non-marksmen. Armory practice, whenever practicable, is of great value to correct errors in the hold, trigger pull and defective sighting.

No man will be permitted to proceed to range-target practice until thoroughly grounded in the general principles of firing.

Inspections will include report to the department on the thoroughness of the methods followed, and the efficiency of the militia with their arms.

III. RECORDS.

Every shot fired is to be recorded, but a man may withdraw a string begun, leaving the ticket uncompleted, and start anew. Uncompleted scores are to be preserved, signed and turned in.

All scores will be on the official score tickets, supplied by the Quartermaster-General upon application by letter. These tickets should be used in numerical order, one part retained and one turned in to the Inspector of Rifle Practice.

All scores for record must be verified by the Inspector of Rifle Practice or, in his absence, by a commissioned officer present. When impracticable for a commissioned officer to be on the range, upon such evidence of a non-commissioned officer present as shall be deemed satisfactory, scores may be accepted if certified by the company commander.

IV. QUALIFICATIONS.

The following qualifications are hereby established : —

Third Class. — Two scores of 15 out of a possible 25, at 200 yards.

Second Class. — Two scores of 18 out of a possible 25, at 200 yards.

First Class. — Two scores of 21 out of a possible 25, at 200 yards ; two scores of 21 out of a possible 25, at 500 yards.

Sharpshooter Class. — Two scores of 22 out of a possible 25, at 200 yards ; two scores of 24 out of a possible 25, at 500 yards ; two scores of 23 out of a possible 25, at 600 yards.

Distinguished Marksman Class. — Sharpshooters of record, who (1) have represented the State at Creedmoor, or (2) who may be mentioned in orders as the First Twelve, or (3) who have won an individual trophy at the State match.

Second-class marksmen armed with the carbine may use the rifle, when practicable, for ranges beyond 200 yards ; one point will be allowed on each score for qualification made with the carbine at 500 yards and 600 yards.

Position at 200 yards, standing ; at the longer ranges, any position.

V. REVOLVERS.

Provided all the officers of an organization agree voluntarily to furnish themselves with revolvers, qualifications will be established.

Rules governing qualifications with the revolver will be issued in a later order, which will state the revolver to be used.

VI. ENTRIES.

Only marksmen of record may enter for the competitions provided in this order.

No person will be eligible for team or individual entry unless he has performed at least one-half of all State duty, prescribed by General Statute, to which he has been liable during the year, and unless he has been mustered into service previous to September 1.

At State, regimental, corps or battalion competitions fatigue uniform is prescribed.

Competitors provide their own ammunition.

The rifle or carbine used must be that issued by the State, with sights properly pertaining to the piece. Rifles must not be cleaned during the competition.

Violation of any rule, or any act of carelessness, will debar the offender.

These rules are general.

VII. SCORING.

Scorekeepers shall write upon the blackboard the names of the competitors in the order in which they are firing. Scorekeepers will call aloud the name of the competitor and the value of each shot as signalled, which must be done before the next shot is fired. At the conclusion of the score of each competitor his name and total score shall be announced.

VIII. PROTESTS.

All protests must be made in writing, in duplicate, within two hours of the occurrence.

Any team or competitor aggrieved by a decision of the executive officer may enter a protest with him to be forwarded to the Adjutant General. No challenges of marking or non-marking will be permitted, except at the discretion of the executive officer.

IX. COMPETITIONS.

Subject to such modification as may be deemed expedient, the State competitions will be as follows : —

Independent of the company work (which should qualify at least three-quarters of the men in each company), each regiment, corps and the Naval Brigade may have an annual competition, in which teams of seven from each company, selected for their proficiency, shall compete, at the same time, on the most convenient range. The most "convenient range" will be considered that which has sufficient facilities within the most "convenient" distance. Regimental officers may, if advisable, have their competitions in detachments, not less than four companies shooting at one time ; and they will, in any case, notify this office of intended arrangements, for approval.

In such contest ten consecutive shots shall be fired at the 200 yards range.

The twelve highest men will win a place on the regimental team. Officers and non-commissioned staff officers of the several organi-

zations, not firing with companies. may compete at the same time, and those who make more points than the lowest of the first twelve enlisted men will earn a place on their regimental team.

At the regimental competitions the company making the best score will win a suitable trophy.

Subject to the approval of the commanding officer, the Inspector of Rifle Practice will select twelve to represent the organization at the general State competition.

The Inspector of Rifle Practice of the cavalry may arrange for such competition of teams of six from the several troops under his personal supervision, on the most convenient range, as will establish their standing.

The winning team will receive a trophy, and those who make the six highest scores will be entitled to compete at the general State competition.

Any members of the State militia, not armed with the rifle, who desire to practise, furnishing their own ammunition and conforming to the regulations, can have their scores, duly certified, turned in to the Inspector General of Rifle Practice for qualification records; and, subject to his approval, not to exceed six of such marksmen may compete at the general State competition.

X. OFFICERS.

While the rifle is the arm of the enlisted men, and rewards for its efficient use properly belong to them, the department recognizes the value of having officers take an active interest in shooting.

At the general State competition not to exceed six from the staffs of the First and Second Brigades may compete.

XI. GENERAL STATE COMPETITION.

The general State competition will be held before October 10. At this match the teams of twelve from the several organizations will compete at 200 yards and, if practicable, at 500 yards.

All competitors (except distinguished marksmen) will compete for individual trophies:—

For the three highest scores by sharpshooters of record.

For the four highest scores by first-class marksmen.

For the three highest scores of the junior classes.

Scores of competitors shooting on the teams will count for individual trophies.

Competitors making the twelve highest scores, officers or men, will be mentioned in orders.

The tri-color will be the regimental trophy won by the winning team.

XII. DISTINGUISHED MARKSMAN CLASS.

The State competition for distinguished marksmen will comprise firing at known and unknown distances, and estimating distances in skirmish formation.

The three highest scores in the distinguished marksmen competition will be recognized by medals.

XIII. TROPHIES.

Individual trophies become the property of the officers or enlisted men who win them. All headquarters and company trophies issued, or hereafter to be issued, will not be borne upon their returns, but on the discontinuance of a company for any cause will be turned in to the Adjutant General.

XIV. MEDALS AND RIBBONS.

Medals are worn only in full dress, on the left breast.

The State recognizes original qualification for the five grades established of distinguished marksman, sharpshooter, first-class, second-class and third-class marksman by a medal; with a bar for the sharpshooter and a bullet for the marksman classes, bearing the year of requalification.

On State service, only medals issued by the State or won at Creedmoor, not to exceed six in number in all, may be worn. Officers or men who have won distinctively military decorations of importance, outside of strictly State authority, may apply for special permission to include such decorations within the number permitted on State duty.

Regimental, corps or company medals, and semi-military medals with State sanction to encourage voluntary practice, may be worn on social occasions, and with the authority of the commanding officer when the organization parades alone.

Ribbons worn on the blouse are subject to the same restrictions as medals.

XV. BUTTONS FOR MARKSMANSHIP.

Buttons are issued by the State for original qualification as marksman, sharpshooter and distinguished marksman.

No more than two buttons (one set) may be worn at the same time.

XVI. RECORD OF MARKSMANSHIP.

Qualifications may be reported by the Inspector of Rifle Practice that record may be established of officers and men for the competitions, and the issue of buttons when desired.

Qualifications raised subsequently will appear in the official reports covering the target year, and the final return will establish the standing for the season.

XVII. FIGURE OF MERIT.

The relative standing of a company will be established on the enrolled strength October 31.

Every distinguished marksman and sharpshooter will count five points.

Every first-class marksman, four points.

Every second-class marksman, three points.

Every third-class marksman, two points.

Every man who has fired during the target season but failed to qualify, one point.

Any member of a company winning an individual prize, a place on the State team, or shooting on a winning team in a State competition will carry five points additional to the standing of the company.

Fifty dollars will be given to the company having the best standing October 31, and \$25 to each company that qualifies the full complement of enlisted men as marksmen.

XVIII. PAYMENT AND TRANSPORTATION.

At the State match pay at the rate of \$4 for officers and \$2 for men, with transportation for officers and men under orders, will be allowed.

At the regimental competitions and the distinguished marksman competition, pay at the rate of \$2 and transportation will be allowed for both officers and men competing.

Markers will be provided at the State competitions. At regimental matches there will be allowed \$12 and at battalion matches \$6 to pay for markers.

Commanders will have muster and assignment rolls in readiness at the close of competition for muster by the officer detailed for that duty.

XIX. INSPECTORS.

Brigade inspectors will confer with the department to keep touch on strictly departmental matters. They will report their views as to the best course to promote increased interest and real progress in rifle work during the winter. Brigade inspectors will be allowed mileage to visit regimental headquarters twice in each target year to confer at officers' meetings on the best methods of securing real efficiency in rifle work.

Regimental inspectors will report to the department the present range facilities of their organization, and submit such other reports as may be called for by the department.

Provision is made (by law) for inspectors to visit companies to supervise the preliminary work in the armory. Reports of such visits will be duly made to the department. The Inspector General of Rifle Practice is permitted to call the Assistant Inspector General of Rifle Practice and Inspectors of Rifle Practice together once each quarter, for which mileage will be allowed.

Commanding officers of companies must notify the Inspector of Rifle Practice of all dates appointed for field work in any target year. The Inspector of Rifle Practice shall attend in person (or by substitute), with transportation allowance, as fixed by statute of 1887, chapter 411, section 127. His duty will be (1) to ascertain how thoroughly armory work has been done, (2) to inspect the practical work in the field, (3) to verify scores as far as possible, and (4) to take such action for general improvement as his judgment and discretion may prompt.

Inspectors will advise with the department and report measures taken to further and insure proper proficiency in shooting.

XX. RETURNS.

All Inspectors of Rifle Practice will have their final official reports forwarded to reach the Inspector General of Rifle Practice not later than Nov. 10, 1893. Duplicate reports will be sent to brigade headquarters.

Inspectors of Rifle Practice will submit reports of their respective regimental, corps or battalion competitions within forty-eight hours of such competitions to the department.

By order of the Commander-in-Chief,

WM. LEVERETT CHASE,

Colonel and Inspector General of Rifle Practice.

OFFICIAL :

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Feb. 6, 1893.

GENERAL ORDERS, No. 4.

I. The court of inquiry constituted by Special Orders No. 100 from this office, dated Aug. 20, 1892, having made its report, and the same having been submitted to the Judge Advocate General, who declares the proceedings, statement of facts and recommenda-

tions regular and according to law, the orders of the Commander-in-Chief are as follows :—

EXECUTIVE DEPARTMENT, BOSTON, Feb. 6, 1893.

The proceedings, statement of facts, opinions and recommendations of the court of inquiry, of which Lieutenant Colonel Charles F. Woodward, Sixth Regiment of Infantry, is president, are hereby approved, and the Adjutant General will issue the necessary orders to carry into effect the recommendations of the court.

WILLIAM E. RUSSELL,
Governor and Commander-in-Chief.

II. That Captain Benjamin H. Jellison, Company F, Eighth Regiment Infantry, Second Brigade, M. V. M., for the forcible rescue of a prisoner from the custody and control of the guard at the encampment of the Second Brigade, M. V. M., in the month of July, 1892, in violation of the military law and discipline, is hereby discharged, in accordance with the recommendations of the court.

III. That Captain Herbert E. Staples, Company H, Eighth Regiment Infantry, Second Brigade, M. V. M., as officer of the day, for neglect of duty in not exercising the authority vested in him, by placing Captain Jellison in arrest, is hereby reprimanded, in accordance with the recommendations of the court.

IV. That Second Lieutenant Winfield S. Dennison, Company G, Eighth Regiment Infantry, for "flagrant neglect of duty and cowardice," is hereby discharged, in accordance with the recommendations of the court.

V. In the case of Corporal Edward A. Connelly, Company F, Eighth Regiment Infantry, Second Brigade, M. V. M., who aided and abetted the escape of a prisoner, the court recommends that his re-enlistment clause be stricken out and that he be discharged, as the interests of the service demand it. Corporal Edward A. Connelly will be discharged, as recommended by the court.

VI. That the interests of the service demand the discharge of Corporal James E. Connor, Company F, Eighth Regiment Infantry, Second Brigade, because he failed to protect a sentry when insulted and assaulted; the court recommends that the re-enlistment clause in his discharge be stricken out. Corporal James E. Connor will be discharged, as recommended by the court.

VII. That Private Joseph E. LeBlanc of Company H, and ex-Sergeant Joseph P. Bessom, late of Company C, Eighth Regiment Infantry, be commended for their conduct in this affair, and the said Joseph E. LeBlanc and Joseph P. Bessom are hereby commended for their soldierly conduct.

VIII. In the case of Major George A. Copeland, Eighth Regiment Infantry, Second Brigade, M. V. M., charged with conduct unbecoming an officer and prejudicial to the service while in camp at South Framingham, July 14, 1892; also with like conduct at Gloucester, Aug. 25, 1892, and with disobedience of orders and neglect of duty at camp July 11 to 16 inclusive, the court is of the opinion that the charges are not sustained by the evidence.

The court says: "While there is a general failure of the allegations, no evidence was presented to show that Major Copeland had made any special effort to cordially co-operate with the commanding officer of the regiment. But whatever lack of unity of action there may have been on the part of officers of the regiment, prompt and proper action by the commanding officer would easily have remedied the difficulty and have prevented the examination by a court of inquiry of a series of allegations which, as a whole, were of altogether too frivolous a character to have been allowed to occupy the attention of such a body."

IX. The following is their summing up of the cases investigated by the court, in the conclusions of which the Commander-in-Chief concurs:—

"The court feels impelled to say that, from the facts presented in this and other cases investigated by it, there is a serious lack of harmony among the officers of the regiment, a failure to treat the most serious offences against military law in a manner in any way commensurate with their magnitude, and such confused ideas of discipline as to lead to a serious doubt whether, under existing conditions and officership, the Eighth Regiment can possibly assume the position in the ranks of the militia to which its material justifies it. And the court is clearly of the opinion that there should be at once a thorough and complete reorganization of this regiment."

X. Maj. Gen. Samuel Dalton, Adjutant General, and Brig. Gen. Benjamin F. Peach, Jr., commanding Second Brigade, M. V. M., will report to the commander-in-Chief at the State House, Boston, on Friday, the tenth day of February instant, at twelve o'clock m., for the purpose of considering the recommendations of the court for the reorganization of the Eighth Regiment of Infantry.

XI. The court of inquiry, of which Lieut. Col. Charles F. Woodward is president, is hereby dissolved.

By order of the Commander-in-Chief,

SAMUEL DALTON,

Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Feb. 23, 1893.

GENERAL ORDERS, No. 5.

I. The following is published for the information of the militia :—

EXECUTIVE DEPARTMENT, BOSTON, Feb. 23, 1893.

Upon the report and recommendations of the inspector general's department, transmitted by the adjutant general, the following-mentioned petition for a company to be attached to the naval militia of the Commonwealth is hereby approved, and the same will be mustered into the military service of the State, viz.: Fred H. Weston and others of Springfield.

(Signed)

WM. E. RUSSELL,
Governor and Commander-in-Chief.

II. Lieut. Com. John C. Soley, commanding naval battalion, M. V. M., will arrange to muster in the new company at Springfield on Monday evening, March 6. He will detail a medical officer of his command to examine recruits.

Upon the muster-in of the new company at Springfield, which will be known as Company H, an election of officers may be held (the usual notice being waived), at which Lieutenant Commander Soley will preside. The officers elected will at once be ordered for examination by the presiding officer.

All books, blanks and papers necessary for the performance of this duty will be furnished from this office on application of the officer detailed for this duty.

III. The naval brigade, authorized by chapter 366 of the Acts of 1892, will be organized as follows: First battalion, companies A, B, C and D, stationed in Boston. Second battalion, Company E, Lynn; F, Fall River; G, New Bedford; H, Springfield.

Lieut. Com. John C. Soley, commanding the naval battalion, will at once, in addition to his other duties, assume command of the naval brigade.

IV. Hereafter all applications for discharge of enlisted men must state fully the reason for such application.

V. Brown canvas leggings, now being issued, will be worn on all ordered duties outside of armories.

By order of the Commander-in-Chief,

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, March 31, 1893.

GENERAL ORDERS, No. 6.

I. The following is published for the information of officers and enlisted men of the militia : —

UNITED STATES ARMY REGULATIONS.

Article I.

"1. Inferiors are required to obey strictly and to execute promptly the lawful orders of the superiors appointed over them.

"2. Military authority will be exercised with firmness, kindness and justice. Punishments must conform to law, and follow the offence as promptly as circumstances will permit.

"3. Superiors are forbidden to injure those under them by tyrannical or capricious conduct, or by abusive language.

"4. Deliberations or discussions among military men conveying praise or censure, or any mark of approbation towards others in the military service, and all publications relative to transactions between officers of a private or personal nature, are prohibited."

Hereafter all officers and men will be held to a strict adherence to the above articles, and any departure therefrom will be at once reported by commanding officers.

II. Care will be taken by commanding officers that all general orders are promptly forwarded to company commanders, and all officers entitled to general orders will report at once the number and series of orders not on file.

More attention will be given to a strict compliance with orders, and all departures therefrom will be reported. All general orders will be read at the next meeting of the organization after receipt of the same, and a memorandum made in margin of minutes that the order was read, giving number of same.

III. The troops composing the Massachusetts volunteer militia will hold the annual encampments for the year 1893 as follows : —

First Brigade, Brig. Gen. Benjamin F. Bridges commanding, at the State Camp Ground, South Framingham, June 6 to 10, inclusive. Second Brigade, Brig. Gen. Benjamin F. Peach, Jr., commanding, at the State Camp Ground, South Framingham, July 18 to 22, inclusive. First Corps of Cadets, Lieut. Col. Thomas F. Edmonds commanding, at Hingham, July 11 to 15, inclusive. The annual drill of this command will take place at Hingham, July 10. Second Corps of Cadets, Lieut. Col. John W. Hart

commanding, at Essex, August 8 to 12, inclusive. The annual drill of this command will take place at Essex on August 7.*

Troops performing camp and annual drill duty the same week must forward separate muster rolls for such duty.

IV. Muster and assignment rolls will be prepared and the muster of troops conducted as provided in Article XXIII., Regulations M. V. M. Blanks will be forwarded, respectively, to brigade, regimental, battalion and company commanders direct from this office, and paymasters will not forward rolls for pay until properly compared and found correct.

No officer or enlisted man will be returned for pay who does not perform at least three days of camp duty. Officers and men who perform duty only on the first and last day are of no benefit to the State.

Officers and enlisted men who report for duty after retreat will not be returned for pay.

Commanding officers will see that all musters are properly conducted, and no man will be returned for pay unless the mustering officer personally sees him and musters him.

V. Brigade commanders are hereby ordered to assume control of the State Camp Ground (excepting the arsenal and buildings immediately adjoining) on the day prior to the encampment of their respective commands, and all officers and soldiers are directed to conform to the regulations which shall be made by brigade commanders in pursuance of this order. Proper details will be made for guarding all property.

VI. Brigade commanders will make details for provost guard, and from each battalion, unattached company of cavalry and artillery, the quartermaster and the quartermaster-sergeant for duty on the day preceding the encampments, but no detail of camping parties for pitching tents will be made. Troops arriving in camp on the day preceding the date of encampment will be under orders of the brigade commanders, and enlisted men will not leave camp without pass. Brigade commanders will also detail a staff officer to attend to embarking and disembarking troops at depots in Boston and South Framingham, on the first and fifth days at camp, who shall forward a detailed report of the same through channels to this office.

All officers of the day and guard will be instructed to see that men in uniform are not allowed to lie on the ground. Cleanliness of clothing requires this to be strictly enforced and the habit has become too common among enlisted men. This does not prohibit lying on the ground when required in drill regulations.

* Naval Brigade under S. O., 46, c. s., April 25 to 29, inclusive.

VII. The judge advocate of each brigade is hereby ordered, during the encampments, to exercise jurisdiction under section 110, chapter 411 of the Acts of 1887.

VIII. The officers to whom details are ordered to report will verify the same, and, on the first day of the encampment, certify the names of those present to their paymaster, who will at once see that they are reported on the proper muster rolls in the column for extra duty.

IX. All caterers' help and citizen employees will be provided with some badge or written pass to designate them and their employment.

X. Requisitions for supplies will not be received or filled in camp except in cases of special emergency, and the practice of delaying requisitions until arrival in camp will be discontinued.

XI. Bills for transportation of all horses for headquarters, approved by the commanding officer, with accompanying vouchers, will be forwarded immediately upon the completion of duty, and will be paid through the paymaster. Vouchers must accompany each bill for horse transportation.

XII. All medical officers will enter upon sick book in full all cases coming under their charge, in order to meet all claims that may be made.

The veterinary surgeons of each brigade will thoroughly inspect all horses reported for duty, and they are authorized to reject horses unfit for service and order that they shall not be returned for allowance on bills or pay-rolls. If possible, they will inspect the horses for artillery and cavalry prior to their leaving their home posts. If it is necessary to accomplish this to have the duty performed the day before camp, the veterinary surgeons will perform this duty on these dates and be returned on pay-rolls for extra duty. The horses of officers and enlisted men for which allowance is made will not be ridden by civilians under any consideration whatever, and all racing and over-driving is strictly prohibited.

XIII. Officers of the guard will, as soon as guard is mounted, take an inventory of all State property — uniforms, arms, equipments, etc. — which each enlisted man of his guard has; and before dismissing his guard, on being relieved by the new guard, will see that every man has all property he reported, and in case of loss will at once report it to the quartermaster-general. Reports of loss of property on guard mean inefficient guard officers. The guard quarters will be kept clean by the guard each day.

XIV. Brigade commanders will make such rules as to passes for citizens as they may deem best for the interests of the service, and stringent orders will be given forbidding teams to cross the parade ground.

Passes for enlisted men to leave camp will not be given except in urgent cases, and all enlisted men found outside of camp without authority will be arrested and at once court-martialed.

Returns of absentees, with recommendations for action, will be forwarded on the last day of camp to the adjutant-general. Captains of companies will see that no man is recommended for discharge who has not been properly notified of the tour of duty.

The attention of officers is called to clauses 4, 5, 6 and 7, paragraph 1, General Orders No. 3, A. G. O., dated Jan. 31, 1888. This order is still in operation, from which there will be no departure, and all officers will govern themselves accordingly.

XV. Col. William L. Chase, acting inspector general, will forward to this office application for details of inspecting officers for duty at the several camps, and will state whether such detail will provide their horses. Each inspecting officer will, at the completion of a tour of duty for which he is assigned, forward through the acting inspector general a return for pay, mileage and horse.

XVI. Brigade, cadet, corps and naval brigade commanders are charged with the promulgation of this order.

By order of the Commander-in-Chief,

SAMUEL DALTON,

Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, April 13, 1893.

GENERAL ORDERS, No. 7.

I. The following is the amended bill of dress for the Massachusetts Volunteer Militia. All commanding officers will be held responsible for a strict compliance with the same, and they, with the inspecting officers, will report at once any deviation from this order.

COATS.

Full Dress for Officers.

A double-breasted frock coat of dark-blue cloth, the skirt to extend from one-half to three-fourths the distance from the hip-joint to the bend of the knee.

For a Major General.—Two rows of buttons on the breast, nine in each row, placed by threes; the distance between each row five and one-half inches at top, and three and one-half inches at bottom; stand-up collar, not less than one nor more than two inches in height, to hook in front at the bottom and slope thence up and backward at an angle of thirty degrees on each side, cor-

ners rounded; cuffs three inches deep, to go round the sleeves parallel with the lower edge, and with three small buttons at the under seam; pockets in the folds of the skirts, with two buttons at the hip and one at the lower end of each side-edge, making four buttons on the back and skirt of the coat; collar and cuffs to be of dark-blue velvet.

For a Brigadier General. — The same as for a major general, except that there will be eight buttons in each row on the breast, placed by pairs.

For a Colonel, Lieutenant Colonel and Major. — The same as for a major general, except that there will be nine buttons in each row on the breast, placed at equal distances; collar and cuffs of the same color and material as the coat.

For a Captain, First Lieutenant and Second Lieutenant. — The same as for a colonel, except that there will be seven buttons in each row on the breast.

For Chaplains. — Plain black frock coat with standing collar: one row of nine black buttons in front on breast, with "herriing-bone" of black braid, one-half inch wide, around the buttons and button-holes.

VESTS.

When not on duty, officers may wear a buff, white or blue vest.

UNDRESS FOR ALL OFFICERS.

For Marches, Fatigue Duty and Ordinary Wear. — A sack coat of dark-blue cloth or serge, single-breasted; standing collar fastened with hook and eye; coat to close with a flap containing five concealed black buttons and button-holes; the skirt to extend from one-third to two-thirds the distance from the hip-joint to the bend of the knee, according to height of wearer; to be cut to fit the figure easily; back in a single piece with curved side seams; a vertical opening in each side at the hip, according to pattern; the sword-belt to be worn underneath the coat, the sword-hook emerging through the opening in the left side; the shoulder-strap to be worn; the insignia of the corps or the number of the regiment on each side of the collar, according to pattern.

Trimmings. — Of lustrous black mohair flat braid, as follows: to be edged all around the bottom, the front edges, the collar, and for six inches upward from the bottom, along both side openings of the skirt, with braid one and three-eighths inches wide. On each side of the breast five double rows of three-eighths-inch braid, with crow's feet at the outer ends; the crow's feet of the top rows extending nearly to the sleeve seams, the lowest crow's feet to be

about six inches apart, according to measure of waist. On each sleeve, an Austrian knot of three-eighths-inch braid, according to pattern, extending about nine inches upward from the bottom of the cuff; along each back seam a double row of three-eighths-inch braid ending with crow's feet at top and bottom. At discretion of wearer there may be two or four small outside pockets on the breast, the openings to be concealed by the braid.

Numbers and Insignia for Officers' Undress Coats.—The numbers to be embroidered in silver bullion, and the insignia in gold or silver bullion, according to the insignia of corps on shoulder-knots of dress coat, conforming to patterns in the office of the quartermaster general; to be three-fourths of an inch in height and of proportionate width. They will be placed on each side of the coat collar, one and one-half inches from the edge and one-eighth of an inch from the top of the collar, making the distance between the insignia or numbers three inches in the clear. Numbers to be blocked-shaped.

Officers will be required to provide themselves with the undress coat by Sept. 1, 1893, but may commence to wear it as soon as convenient.

COAT FOR ENLISTED MEN.

For Infantry.—Single-breasted dark-blue frock coat, according to the pattern in the office of the adjutant general.

For Cavalry and Artillery.—Same as for infantry, except that pipings and facings are of yellow for cavalry and of red for artillery.

For Signal Corps.—Same as for infantry; facings to be orange.

For Ambulance Corps.—Same as for infantry; facings to be olive-green.

UNDRESS FOR ENLISTED MEN.

For Fatigue Purposes and for General Wear.—A dark-blue blouse, same as issued by the quartermaster general's department of the United States Army.

BUTTONS.

As per pattern in the office of the adjutant general.

For General Officers and Officers of the Governor's and Brigade Staffs.—The staff button.

For all other Officers, except Chaplains.—The line officer's button.

For Chaplains.—Plain black serge button.

For all Enlisted Men.—The special button for enlisted men, except the blouse button, which shall be the United States button.

TROUSERS.

For General Officers and Officers of the Governor's and Brigade Staffs. — Dark-blue cloth, plain, without stripe, welt or cord.

For all Regimental Officers of Cavalry, Artillery, Infantry, Signal and Ambulance Corps. — Light-blue cloth, same shade of color as trousers of enlisted men, with stripe one and one-half inches wide, welted at the edges; color, that of facings of their respective arms, except infantry, which will be dark-blue.

For Chaplains. — Plain black, with black cord on outer seams.

For all Enlisted Men. — Sky-blue; color and style as per pattern in the office of the adjutant general.

Non-commissioned staff officers and sergeants to wear a stripe one inch wide; corporals, one-half inch wide; musicians, two stripes, one-half inch wide and one-fourth of an inch apart; color to conform to arm of service.

LEGGINGS.

All enlisted men of infantry, signal and ambulance corps shall wear the canvas leggings, as per pattern in the adjutant general's office.

CRAVATS.

For all Officers and Enlisted Men. — Black or white, as may be prescribed by regimental commanders; the tie not to be visible at the opening of the dress coat.

BOOTS AND SHOES.

For all Officers and Enlisted Men. — Black, the stocking not to be visible.

HAT OR CAP (FULL DRESS).

For General Officers and Officers of the Governor's and Brigade Staffs. — Chapeau according to pattern, with staff buttons; to be worn with the peak slightly to the left, showing the gilt ornament upon the right side.

For Field and Staff Officers, Officers of Artillery and Cavalry, Signal and Ambulance Corps. — Black felt helmet, cloth-covered, with gold cord and tassels and gilt trimmings, according to pattern. Officers, when on duty, may wear the spike without cord.

For Chaplains. — Black chapeau without plume, ornament of black silk, with the number of the regiment above the arms of the State, embroidered in silver, on the right side.

For all other Officers. — Black felt, cloth-covered helmet, without plume, with metal ornaments, as per pattern.

For Enlisted Men of Artillery and Cavalry.—Black felt, cloth-covered helmet, same pattern as for officers, with cords and tassels of mohair, red for artillery and yellow for cavalry. Helmet ornamented with yellow metal trimmings, as per pattern.

The helmet cords will be attached to the left side of the helmet and come down to the left shoulder, where they are held together by a slide; one cord then passes to the front, the other to the rear of the neck, crossing upon the right shoulder and passing separately around the front and rear of the right arm, where they are again united and held together by a slide under the arm; the united cords then cross the breast and are looped up to the upper button on the left side of the coat.

For all other enlisted men, same as for enlisted men of artillery and cavalry, except cord and tassels, but spike will be worn in place of plume. All dress hats to be of regular army pattern.

White cork canvas helmets, with chin strap and number of organization, may be worn under orders of the Commander-in-Chief.

FORAGE CAP.

For General Officers.—Of dark-blue cloth, straight visor, chasseur pattern; to have black velvet band and badge in front.

For all other Commissioned Officers.—Same as for general officers, but without the black velvet band and having the badge in front, the top to be even with top of cap.

For Chaplains.—Black felt army hat, with black cord.

For all Enlisted Men.—Of plain blue cloth, with straight visor, chasseur pattern, and with cap device in front, as per pattern in the office of the adjutant general.

For Officers of Artillery.—Two gold embroidered cannon crossed, on dark-blue cloth ground, with the number of the regiment in silver at the intersection of the crossed cannon.

For Officers of Infantry.—Two gold embroidered rifles crossed, without bayonets, barrel upward, on dark-blue cloth ground, with the number of the regiment in silver in the upper angle.

For Officers of Signal Corps.—A gold embroidered wreath on dark-blue ground, with crossed flags and torch in centre.

For Officers of Ambulance Corps.—A gold embroidered wreath, with Geneva cross in centre.

All caps and cap ornaments of officers to be of regular army pattern and shape.

Officers and men who have seen service in war may wear corps badges of cloth on top of cap.

PLUMES FOR OFFICERS.

For Field and Staff Officers of Battalions and Officers of Cavalry, Artillery, Signal and Ambulance Corps. — Horse-hair plume, gilt ball and socket; plume to be long enough to reach the front edge of visor of helmet; color of plume to be white for infantry, red for artillery, yellow for cavalry, orange for signal corps and olive-green for ambulance corps.

PLUMES FOR ENLISTED MEN.

For Artillery and Cavalry. — Horse-hair plume, same size and length as for officers; red for artillery, yellow for cavalry; socket according to pattern.

SPURS.

For all Mounted Officers. — Yellow metal or gilt.

For all Mounted Men. — Of yellow metal, plain surface.

GLOVES.

For General Officers and Officers of the Governor's and Brigade Staffs. — Buff gauntlets, on duty with troops; white, otherwise.

For Field and Staff Officers of Artillery, Cavalry and Infantry, and for Officers of Artillery and Cavalry, Signal and Ambulance Corps. — White gauntlets, on duty with troops.

All other officers, white gloves.

SASH.

For General Officers. — Buff silk net, with silk bullion fringe ends; sash to go twice around the waist and to tie behind the left hip; pendent part not to extend more than eighteen inches below the tie. Officers above the grade of brigadier general may, at their option, wear the sash across the body from the left shoulder to the right side.

SWORD-BELT.

For all Officers. — A waist-belt, not more than two inches wide, with slings of the same material as the belt, with a hook attached to the belt on which to hang the sword. The belt to be worn outside the full dress coat, inside the undress sack coat and underneath overcoat by all officers. A light webbing belt may be worn with undress coat.

For General Officers. — Of red russia leather, with three stripes of gold embroidery, as per pattern now worn.

For all Field Officers. — One broad stripe of gold lace on black enamelled leather, according to pattern.

For Company Officers of Cavalry, Artillery, Infantry, Signal and Ambulance Corps.—Four stripes of gold lace, interwoven with silk of the same color as the facings of their arms of service, and lined with black enamelled leather.

On undress duty, marches and campaigns, officers may wear a plain black leather belt when all the officers of a battalion or unattached command are equipped with the same.

For all Non-commissioned Officers.—Plain black leather, same as pattern in office of adjutant general. No other will be worn.

SWORD-BELT PLATE.

For all Officers.—Gilt, rectangular, two inches wide, with a raised bright rim; a silver wreath of laurel encircling the arms of the United States; eagle, shield, scroll, edge of cloud and rays bright; the motto: “E pluribus unum” upon the scroll; stars also of silver, according to pattern. For enlisted men, as issued by the State.

SWORD AND SCABBARD.

For General Officers.—Straight sword, gilt hilt, silver grip, nickel and bronzed scabbards; for a major general, to have two gilt stars, for a brigadier general, one gilt star, between the bands.

For all other Officers except Chaplains.—The same as for general officers, except that the grip will be black, bound with gilt wire, and omitting the stars on the scabbard.

Chaplains wear no swords.

Bronzed scabbard will always be worn with black belt.

For Non-commissioned Staff Officers.—Small straight sword, gilt bow hilt, black grip, bronzed scabbard, like pattern in the office of the adjutant general. To be carried in a sword frog by non-commissioned staff officers of infantry.

The sword will be worn upon all occasions of duty except stable and fatigue.

When not on military duty, officers may wear swords of honor.

Field and staff officers may wear the new pattern of field officers' swords adopted by the War Department when all procure them. Officers of the artillery and cavalry may wear the regulation sword for their arm when all officers procure them.

SWORD-KNOT.

For General Officers.—Gold cord, with acorn end.

For all other Officers.—Gold lace strap, with gold bullion tassel, as now worn. Officers when wearing a black belt may wear a sword-knot of russet or white leather.

EPAULETTES.

For a Major General. — Of gold, with solid crescent; device, two silver embroidered stars, with five rays each, one and one-half inches and one and one-quarter inches in diameter, placed longitudinally; the smaller in the centre of the strap.

For a Brigadier General. — Same as for a major general, omitting the smaller star.

SHOULDER-KNOTS.

For Officers of the Governor's and Brigade Staffs. — Gold cord, Russian pattern, on dark-blue ground; insignia of rank and letters or device of corps embroidered on the cloth ground; an aiguillette of gold cord to be worn with the right shoulder-knot by adjutant general and assistant adjutants general, assistant inspectors general and aides-de-camp.

For Officers of Cavalry, Artillery, Infantry, Signal and Ambulance Corps. — Of the same pattern as above, but on cloth of the same color as the facings of their arm, with insignia of rank and number of regiment embroidered on the cloth ground, according to pattern.

For Regimental Adjutants. — Of the same pattern as for other officers of their arm, but with aiguillettes attached.

INSIGNIA OF RANK ON SHOULDER-KNOTS.

For a Colonel. — A silver embroidered eagle at the centre of the pad.

For a Lieutenant Colonel. — Two silver embroidered leaves, one at each end of pad.

For a Major. — Two gold embroidered leaves, one at each end of pad.

For a Captain. — Two silver embroidered bars at each end of pad.

For a First Lieutenant. — One silver embroidered bar at each end of pad.

For a Second Lieutenant. — Plain.

The above insignia to be the same as prescribed for the shoulder-straps.

SHOULDER-STRAPS.

For a Major General. — Dark-blue cloth, one and three-eighths inches wide by four inches long, bordered with an embroidery of gold one-fourth of an inch wide; two silver embroidered stars of five rays each.

For a Brigadier General. — The same as for a major general, except that there will be one star instead of two; the centre of the star to be equidistant from the outer edge of the embroidery on the ends of the strap.

For a Colonel. — The same size as for a major general, and bordered in a like manner with an embroidery of gold; a silver embroidered spread eagle on the centre of the strap, two inches between the tips of the wings, having in the right talon an olive branch and in the left a bundle of arrows; an escutcheon on the breast, as represented in the arms of the United States. Cloth of the strap as follows: for the Governor's and brigade staffs, dark-blue; artillery, scarlet; infantry, sky-blue; cavalry, yellow.

For a Lieutenant Colonel. — The same as for a colonel, according to corps, omitting the eagle, and introducing a silver embroidered leaf at each end, each leaf extending seven-eighths of an inch from the end border of the strap.

For a Major. — The same as for a colonel, according to corps, omitting the eagle, and introducing a gold embroidered leaf at each end, each leaf extending seven-eighths of an inch from the end border of the strap.

For a Captain. — The same as for a colonel, according to corps, omitting the eagle, and introducing at each end two silver embroidered bars of the same width as the border, placed parallel to the ends of the strap, at a distance between them and from the border equal to the width of the border.

For a First Lieutenant. — The same as for a colonel, according to corps, omitting the eagle, and introducing at each end one silver embroidered bar of the same width as the border, placed parallel to the ends of the strap, at a distance between them and from the border equal to the width of the border.

For a Second Lieutenant. — The same as for a colonel, according to corps, omitting the eagle.

For a Chaplain. — Same as for a colonel, omitting the eagle, and introducing a shepherd's crook of frosted silver on centre of the strap, which will be of black velvet.

Officers of the ambulance corps will wear in centre of strap the cross of their arm in red.

Veterinary surgeons as now prescribed.

CHEVRONS.

The rank of non-commissioned officers will be marked by chevrons of gold lace upon both sleeves of the uniform dress coat, on fatigue coat above the elbow, and upon overcoats below the elbow, of cloth of the color of the facings, divided into bars a half inch

wide, points down, according to patterns in the office of the adjutant general, as follows : —

Non-commissioned staff officers of brigades as now worn.

For a Sergeant Major. — Three bars and an arc of three bars.

For a Quartermaster Sergeant. — Three bars and a tie of three bars.

For a Drum Major. — Three bars and crossed batons.

For Chief Buglers. — Three bars and bugle, regulation size.

For a Paymaster Sergeant. — Three bars with crossed quill pens.

For Company Buglers. — Bugle in cloth, color of facing, on both dress and fatigue coats.

For a Color Sergeant. — Two crossed flags above the bars of chevron.

For a Hospital Steward. — A half chevron of emerald-green cloth, one and three-quarters inches wide, piped with yellow cloth, running obliquely downward from the outer to the inner seam of the sleeve, and at an angle of about thirty degrees, and in the centre a "caduceus" two inches long, the head toward the outer seam of the sleeve.

When the present crossed flags and caduceus worn by color sergeants and hospital stewards are worn out, the following will be issued in place of same : —

For Hospital Stewards. — Three bars and an arc of one bar of emerald-green cloth enclosing a red cross.

For Color Sergeants. — A sphere above the bars of chevron.

For a First Sergeant. — Three bars and a lozenge.

For Company Quartermaster Sergeant. — Three bars and a tie of one bar.

For a Sergeant. — Three bars.

For a Corporal. — Two bars.

Enlisted men of signal corps will wear crossed flags, and of ambulance corps, the Geneva cross, of cloth, on each arm.

To indicate Service. — All non-commissioned officers, musicians and privates who have served faithfully for five years will wear as a mark of distinction upon both sleeves of the uniform coat, below the elbow, a diagonal half chevron, one-half inch wide, extending from seam to seam, the front end nearest the cuff, and one-half inch above the point of the cuff, to be of the same color as the facing of the coat.

In like manner, an additional half chevron, above and parallel to the first, for every subsequent term of five years' faithful service; distance between each chevron one-fourth of an inch.

Service in war will be indicated by a white stripe on each side

of the chevron for artillery, and a red stripe for all other corps, the stripe to be one-eighth of an inch wide.

OVERCOAT.

For Officers — Regular army pattern, as prescribed for general officers, when all officers of any headquarters or all line officers in an organization provide themselves with the same, otherwise they will wear as follows: color, sky-blue; same in every respect as now worn by enlisted men, except that the cape shall be made detachable; seven buttons, officer's pattern, double row, on front; rank designated upon sleeve by braid, and slit on left side to admit the handle of sword. Overcoat to be worn without cape, except in inclement weather. All mounted officers may wear a dark-blue cape when mounted in inclement weather.

For Enlisted Men of all Arms. — Of sky-blue cloth, of the pattern now used.

To indicate Rank of General Officers. — There will be on both sleeves, near the lower edge, a knot of black silk braid, not exceeding one-eighth of an inch in width, and composed of five braids, double knot.

Colonel, five braids, single knot.

Lieutenant Colonel, four braids, single knot.

Major, three braids, single knot.

Captain, two braids, single knot.

First Lieutenant, one braid, single knot.

Second Lieutenant and Chaplains, without braid.

HORSE FURNITURE.

For Officers.

Saddle-cloth for General Officers. — Dark-blue cloth, trimmed with two rows of gold lace, the outer row one and five eighths inches wide, the inner row two and one-fourth inches; and to bear on each flank corner the following ornament, distinctive of rank, to wit: —

For Major Generals. — A gold embroidered spread eagle and two stars.

For Brigadier Generals. — A gold embroidered spread eagle and one star.

Saddle-cloth for Officers of the Governor's and Brigade Staffs. — Dark-blue cloth, of sufficient length to cover the saddle and holster, and one foot ten inches in depth, with an edging of gold lace one inch wide.

Infantry, sky-blue.

Artillery, red.

Cavalry, yellow.

Signal Corps, orange.

Ambulance Corps, olive-green.

MISCELLANEOUS.

Whenever the full dress coat is worn on armed duty by officers below the rank of brigadier general, the shoulder-knots and gilt sword-belts will be worn; when not on armed duty, the shoulder-strap may be worn by all officers.

Letters and devices to be embroidered on shoulder-knots in silver letters in old English characters:—

For Adjutant General and Assistant Adjutants General, a shield embroidered in silver.

For Inspector General of Rifle Practice and Assistants, I. R. P.

For Assistant Inspector Generals, I. D.

For Judge Advocate General and Judge Advocates, crossed sword and pen wreathed, embroidered in gold.

For Assistant Quartermasters General and Brigade Quartermasters, Q. D.

For Medical Officers, shield embroidered in gold.

For Paymasters, P. D.

For Engineer Officers, a turreted castle.

For Veterinary Surgeon, V. S.

For Regimental Staff Officers other than Medical Officers and Paymaster, the number of the regiment.

Excepting by officers of the day (Regulations, Pars. 581 and 806), sashes will not be worn by officers below the grade of brigadier general or by non-commissioned officers.

BILL OF DRESS FOR NAVAL BRIGADE.

COATS.

On special occasions officers may wear an evening dress coat of dark-blue with three State-Arms buttons on each side and two at the back; the usual insignia on the sleeves and a blue waist-coat cut low, with three small State buttons.

Full Dress for Officers.—A blouse of dark navy-blue cloth, shaped to the figure, to descend to top of inseam of trousers; a slit over each hip, extending on the right side five inches from the bottom of the coat, and on the left side as high as the position of the lower edge of the sword-belt; single-breasted, with a “fly” front fitted with plain, flat, black gutta-percha buttons and a standing collar. The collar, edges of the coat, side seams of the

back from the shoulder to the lower edge of the skirt, and edges of the hip slit to five inches from bottom of coat shall be trimmed with lustrous black mohair braid one and one-fourth inches wide, laid on flat, beside which, at a distance of one-eighth of an inch, with an overhand turn three-eighths of an inch in diameter at each change of direction, a narrow black silk braid one-eighth of an inch wide shall be placed. On each side of the collar shall be embroidered in high relief, one inch in width, the grade devices. The grade marks on the sleeve will be of gold lace.

In warm weather, a similar coat made of white serge, trimmed with white braid of the same description as on the blue coat. Sleeve ornaments and collar devices the same as on the blue coat. The coats always to be worn buttoned.

For Petty Officers of Brigade Staff. — A blue coat or white coat of the same character, with one-inch braid and without braid at the back.

For Enlisted Men. — Dark navy-blue cloth, shaped to the figure, to descend to the top of the inseam of the trousers, single breasted, with five small State buttons, and around the collar of the coat two stripes of white tape, three-sixteenths of an inch wide and three-sixteenths of an inch apart, the outer stripe to be one-fourth of an inch from the edge, the stripes to extend down the front to bottom of opening. In each corner of the collar there should be worked a white star three-fourths of an inch in diameter.

Around the cuffs of the coat, two stripes of white tape, three-sixteenths of an inch wide, one-fourth of an inch apart, the middle line of the space between the stripes to come over the middle of the cuff.

TROUSERS.

For all Commissioned Officers. — Dark navy-blue cloth, having a stripe of black mohair braid one and one-fourth inches wide down their outer seam, or white serge with a stripe of white mohair braid one and one-fourth inches wide down the outer seam.

For all Enlisted Men. — Dark-blue cloth or white duck.

WORKING DRESS — ENLISTED MEN.

Suit of unbleached cotton cloth, the same as now issued to the United States Navy, and, in addition, a white jersey, as per pattern in adjutant general's office.

OVERCOATS.

For all Commissioned Officers. — Same as now prescribed by United States Navy Regulations.

For all Enlisted Men. — Heavy dark navy-blue cloth, lined with dark-blue flannel, the bottom of the skirt to reach the tips of the fingers, arm hanging by the side in its natural position, double-breasted, made to button at the neck, with rolling collar same material as the coat and broad enough to protect the ears when turned up. Five large-sized State buttons on each front, the lower buttons to be placed on a line with the opening of the horizontal pocket, the others to be equally spaced up to the throat. An outside pocket in each breast, the openings to be up and down and the lower part of the opening to be level with the elbow.

A horizontal pocket, with flap cover, shall be placed in each front below the line of the waist. Overcoat to be worn completely buttoned; buttons same as now prescribed for the militia.

CRAVAT.

To be of black silk, one inch in width.

GLOVES.

To be white and to be worn by commissioned officers always when in uniform.

SWORD, SWORD-BELT AND SWORD-KNOT.

For all Officers. — The same as prescribed for use in the United States Navy. The sword-belt to be worn under the coat. In heavy marching order, the officers will wear a web belt, sword and revolver, the belt in this case being outside the coat.

For Petty Officers of Brigade and Battalion Staffs. — Same as for non-commissioned staff of infantry.

LEGGINGS.

To be of brown canvas, navy regulation pattern.

CAP (FULL DRESS).

The cap for all officers shall be of dark navy-blue cloth, the diameter at the top to be slightly more than at the base, the quarters not less than one and one-fourth nor more than one and one-half inches high, and of same height in front and at the back. The seam around the top shall be made without a welt, and neatly stitched on each side. The band shall be one and one-half inches wide, with a welt one-eighth of an inch in diameter at the top and bottom. The bottom welt shall be one-eighth of an inch from the base of the cap. A band of lustrous black mohair braid, similar to that used for the trimmings of the service coat, shall be worn

between upper and lower welts. The visor shall be moulded to shape, and covered with the same cloth as used for the cap. The visor shall slope downward not less than sixty degrees from the horizontal. The inside band shall be of leather and shall extend from the base of the cap to within one inch of the top. The sweat lining shall be of morocco. Four black metal eyelets, two on each side, shall be placed above the band in the quarters for ventilation. A small-sized State button shall be placed on each side beyond the ends of the visor, the eye of the button immediately above the lower welt. A strap of mohair cord doubled with two sliding knots. In hot weather, a white serge cap may be worn, with white braid and the same devices as on the blue. For petty officers of the brigade staff caps will be made of the same description as for officers.

For all Enlisted Men. — Dark navy-blue cloth of the same shape as for officers; band, lustrous black mohair; visor, leather, covered with cloth; chin strap of black patent leather one-half inch wide, fastened at the side with two gilt State buttons and provided with two leather slides. Two small eyelet ventilating holes in each side of the quarters.

HAT (CANVAS).

For all Enlisted Men. — Eight-ounce cotton duck, well shrunk before cutting and with no sweat leather. Hat ribbon of black silk, one and one-fourth inches wide, with the letters M. V. M. woven in gilt thread through the centre of the ribbon.

CAP ORNAMENTS.

For all Commissioned Officers. — The ornament shall be embroidered on dark-blue cloth in high relief, and attached to the cap with its centre over the upper welt. The device shall be a silver shield emblazoned with the arms and crest of the State of Massachusetts placed upon two crossed fowl anchors embroidered in gold. Around the visor a strip of one-half inch gold lace shall be sewed flat. The lieutenant commanders will have, in addition, gold braid one-eighth inch wide sewed above the gold lace in small over-hand knots. The commander shall have around the visor oak leaves embroidered in silver, and the captain the same in gold.

For Petty Officers of the Brigade Staff. — The ornament will be embroidered crossed anchors surmounted by a button with the arms of the State.

For all Enlisted Men. — The ornament will be two crossed anchors of gilt metal surmounted by the letter of that company, the cross of the anchors to be placed at the top of the band.

WATCH CAP.

To be of blue knitted wool, of the same pattern as prescribed for use in the United States Navy.

INSIGNIA OF RANK ON COLLAR.

Collar devices shall be embroidered in high relief upon each side of the collar of the service coat. They shall be one inch in height, with other dimensions proportionate, and shall be placed vertically or horizontally with reference to the upper edge of the collar.

The rank device shall commence three-quarters of an inch from the front edge of the collar. The corps device shall be placed three-quarters of an inch in rear edge of the rank device.

When two bars are worn, the distance between them shall be the width of the bar. The bar shall always be placed at right angles to the upper edge of the collar.

The anchor shall be placed with the shank parallel to the upper edge of the collar and the crown to the front.

Devices shall be as follows : —

For Captain. — A silver embroidered spread eagle and a gold foul anchor.

For Commander. — A silver oak leaf and gold foul anchor.

For Lieutenant Commanders. — A gold oak leaf and gold foul anchor.

For Lieutenants. — Two gold bars and gold foul anchor.

For Lieutenants (junior grade). — One gold bar and gold foul anchor.

For Ensign. — Gold foul anchor.

Brigade and battalion adjutants, ordnance officer, equipment officer, signal officer and aids will wear on the right shoulder a shoulder-knot of two cords of black braid and an aiguillette of black braid terminated by gilt anchors.

INSIGNIA OF RANK ON SLEEVE.

For Captain. — Four strips of one-half inch gold lace one-quarter of an inch apart.

For Commander. — Three strips of one-half inch gold lace one-quarter of an inch apart.

For Lieutenant Commanders. — Two strips of one-half inch gold lace with one strip one-fourth inch gold lace between each, one-quarter of an inch apart.

For Lieutenants. — Two strips of one-half inch gold lace one-quarter of an inch apart.

For Lieutenants (junior grade). — One strip of one-half inch gold lace with one strip of one-fourth inch gold lace one-quarter of an inch above it.

For Ensigns. — One strip of one-half inch gold lace.

The lower edge of the lace in each case shall be two inches above the edge of the sleeve.

The surgeon and assistant surgeons will wear dark maroon velvet between the strips of gold lace; the paymaster white, and the engineer officer red.

All officers will wear a star of five rays embroidered in gold, one inch in diameter, on the outer side of each sleeve and midway between the seams, with one of the rays pointing directly downwards, and the point one-fourth of an inch from the upper edge of the upper strip of lace.

CHEVRONS AND INSIGNIA OF PETTY OFFICERS.

For Petty Officers of the Brigade Staff. — All chevrons to be made of gold lace, of the same size as now issued by the Navy Department, and the rating badge to be embroidered in silver. All chevrons shall be worn on each sleeve of the uniform coat.

Master-at-Arms. — Three bars and arch of three bars with eagle and star.

All other Petty Officers of Brigade Staff. — Three bars and arch of one bar with eagle and crossed anchors.

For Petty Officers of Battalion Staffs. — All chevrons shall be made of red cloth, same size as now issued by the Navy Department, the rating badge over chevron to be worked in white silk, and to be of three bars with eagle and crossed anchors over a lozenge of red cloth.

For all other petty officers: —

First Boatswain's Mate. — Three bars with eagle and crossed anchors over lozenge.

For all other Boatswain's Mates and Gunner's Mates. — Three bars with eagle and crossed anchors.

Coxswains and Quartermasters. — Two bars with eagle and crossed anchors.

BADGES OF SERVICE OR MERIT.

The badges of the Society of the Cincinnati, the Military Order of the Loyal Legion, the Grand Army of the Republic, and of armies or army corps, indicating actual service in the field, and the red cross badge may be worn upon the left breast of the dress coat. Officers and men of the Massachusetts Volunteer Militia who are members by inheritance of the societies of the Sons of the

Revolution, the Sons of the American Revolution, the Society of the War of 1812, and the Mexican War, are entitled to wear on the uniform dress coat, on occasions of ceremony, the distinctive badges adopted by such societies, as authorized by act of Congress, Sept. 25, 1890. Ribbons without clasps, or with single clasps, will not exceed one inch in length; for additional clasps the ribbon may be correspondingly lengthened, not, however, to show more than one inch below the lower clasp or insignia attached to the clasp. In like manner, medals or badges won in authorized military target matches, or in authorized matches for excellence in drill, may be worn on the dress coat.

No medal, badge, ribbon, flower or decoration other than these herein named will be worn. No target or drill match will be considered as authorized unless sanctioned by the orders of a company commander or superior authority.

On the undress coat the ribbon only, indicating a medal or badge, should be worn, to be placed in the same relative position as upon the dress coat.

By order of the Commander-in-Chief,

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, May 26, 1893.

GENERAL ORDERS, No. 8.

I. The following is published for the information of the militia:—

EXECUTIVE DEPARTMENT, BOSTON, May 25, 1893.

Percy Parker of Lowell is hereby appointed assistant quartermaster general on the staff of the Commander-in-Chief.

WM. E. RUSSELL,
Governor and Commander-in-Chief.

II. Colonel Percy Parker having been duly commissioned and qualified will be obeyed and respected accordingly.

III. Officers responsible for property are instructed to take up on property account sight covers, canteen and haversack cases, wiping rods and other State and United States property, which will be accounted for on their semi-annual returns. The recent inspection of property discloses property in some commands not properly accounted for.

IV. Brigade and cadet corps commanders are charged with the promulgation of this order.

By order of the Commander-in-Chief,

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, May 31, 1893.

CIRCULAR No. 1.

TARGET SEASON, 1893.

Walnut Hill, June, July, August, September, October.

The following days are assigned the militia stationed in Boston : —

Tuesdays. — First Brigade Staff, First Regiment Infantry, First Battalion Naval Brigade, First Battalion Cavalry.

Thursdays. — Staff Commander-in-Chief, First Corps Cadets, Companies A and H, Fifth Regiment, Company L, Sixth Regiment Infantry, Company M, Eighth Regiment Infantry.

Fridays. — Second Brigade Staff, Ninth Regiment Infantry.

Headquarters may shoot on the days assigned their organizations. Any member of the militia stationed in the city of Boston may shoot whenever such practice does not interfere with that of the organization specially assigned to that day.

The inspector of rifle practice of the command to whom the targets may be assigned will have general supervision of the shooting for record, and, unless a brigade inspector or the inspector general be present, will be the executive and range officer.

When no inspector is on the range the senior officer present will be in charge.

Firing should be in fatigue uniform whenever practicable.

Attention is called to General Orders No. 3 and the conditions prescribed for the current target year.

If the rifle inspector cannot be present during practice of the organization for whose instruction and proficiency in shooting he is responsible, arrangements must be made to have present some officer or experienced non-commissioned officer from the command.

No firing can be permitted without due supervision.

While it is the duty of company commanders to encourage shooting, general orders lay down the procedure, and there must be preliminary instruction before the use of ball cartridge. The responsibility of violating this general order rests primarily upon the captain who allows an absolutely ignorant recruit to report at the range. Upon the officer in charge of firing rests a further responsibility, and any man found disqualified for practice cannot be permitted to fire. Recent accidents in practice, flagrant carelessness and irresponsibility on the range have brought discredit on the militia.

The Massachusetts Rifle Association advise: "The following conditions will be insisted upon: Every squad must be in charge of an officer or non-commissioned officer. Upon arrival at range, and before targets are opened, the officer or non-commissioned officer in charge will register, with such statement or particulars as the register calls for. The general rules of the Massachusetts Rifle Association to preserve order and decorum and prevent carelessness must be observed; and it is especially required that no liquor shall be brought upon the range. Any violation of rules or discreditable conduct will involve the debarment of others. Copies of rules and conditions will be supplied to squads at the range. The range will not be open to military squads on Wednesdays, Saturdays, or holidays."

Military shooting at Walnut Hill will begin June 20.

Attention is called to circulars Nos. 1 and 2, 1892, issued by this department, and copies of No. 2 required for recruits may be obtained by application to the quartermaster general.

By notifying Mr. W. T. Kendall, range keeper, Woburn, Mass., lunches will be furnished at reasonable charge.

Ammunition can be purchased of the range keeper, and special arrangements made for targets beyond those reserved for the organization firing on that day. Original ammunition (either 405 or 500) can be obtained of the United States Cartridge Company, Lowell, at \$18.50 a thousand rounds for the militia; the 405 grain bullets at \$6.75 a thousand. Orders will state that the ammunition is to be used by the militia. Bills will be made to the companies, to be promptly settled by them.

The proper expenditure of the ammunition issued and money allowance for ammunition to be expended for rifle practice should secure increased efficiency and more marksmen in the current target year.

It is recommended that whenever practicable the Frankfort ammunition, most excellent for long-range firing, be reserved for the work at the mid-range.

When an organization is on duty no provision will be made for targets at Walnut Hill.

A ticket for Walnut Hill will be set aside for each company firing over that range, and upon due notice will be forwarded commanding officers, or their inspector of rifle practice, or company commanders direct, as commanding officers may advise this office.

Inspectors of rifle practice will take due precaution to see that no ticket is lost, but kept where available for men desiring to shoot on days assigned them.

The department will apportion to each company and staff a pro-

rata allowance of the appropriation made by the city of Boston for transportation and target facilities. The balance will be apportioned in such way as may best improve the efficiency of the force.

On the days that targets are provided for an organization, expense is incurred whether men shoot or not. It rests with inspectors of rifle practice to confer with company commanders to see to it that men are present, and the advantages offered improved, and not thrown away.

Whenever company commanders have realized the importance of shooting and their responsibility in this very real duty of the soldier, the progress has been commendable. The most gratifying feature has been the fact that strong companies have maintained their standing, while every year some companies with indifferent records come to the front.

Although far from the city, Walnut Hill is an excellent range. Therefore officers in charge of firing must guard the expenditure of time as well as money. Rifle practice is the duty of a soldier, and should be conducted with soldierly good order and precision.

The department expects that the older shots will do all in their power to encourage recruits, and, so far as is consistent with their work, give such assistance in overcoming defects by friendly coaching as may be desired and is required.

WILLIAM L. CHASE,
Colonel and Inspector General Rifle Practice.

OFFICIAL :

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, June 1, 1893.

CIRCULAR No. 2.

The new army .38 caliber Colt revolver is authorized under Paragraph V., General Orders, No. 3, C. S.

Qualification as proficient will be recorded for two scores of twenty out of a possible thirty (six-shot strings), either at fifty yards on the two-hundred-yard rifle target, or at thirty yards on the one-hundred-yard rifle target.

In firing, every chamber of the revolver is to be charged, and the six shots discharged before the competitor leaves the firing point, and within one minute.

The full charge service ammunition, viz., powder charge 18 grains, weight of bullet 150 grains, is to be used.

Trigger pull of not less than six pounds.

The conditions noted in Paragraph III., General Orders, No. 3, C. S., govern scores for record.

WILLIAM L. CHASE,
Colonel and Inspector General Rifle Practice.

OFFICIAL :

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, June 20, 1893.

GENERAL ORDERS, No. 9.

I. Before a general court-martial which convened at the encampment of the First Brigade, M. V. M., State camp ground, South Framingham, pursuant to Special Orders, No. 70, June 3, 1893, adjutant general's office, and of which Col. Thomas R. Mathews, First Regiment Infantry, M. V. M., is president and Capt. Henry S. Dewey, judge advocate, First Brigade, M. V. M., is judge advocate, was arraigned and tried Col. J. Albert Mills, Eighth Regiment Infantry, M. V. M.

Charge 1. — Conduct unbecoming an officer and gentleman, and to the prejudice of good order and discipline.

Specification 1. — In this, that Col. J. Albert Mills, commanding Eighth Regiment Infantry, Second Brigade, M. V. M., being summoned the twenty-seventh day of May, 1893, to appear before the police court of the city of Newburyport, Mass., at ten o'clock in the forenoon of Monday, the 29th of May, to answer to a criminal charge of embezzlement of moneys, did fail to appear at said court and make his defence and is now a fugitive from justice.

This at Newburyport on the date above mentioned.

Specification 2. — In this, that Col. J. Albert Mills, commanding Eighth Regiment Infantry, Second Brigade, M. V. M., being an agent of the Victoria Mill of Newburyport and in the employ of said Victoria Mill, did embezzle funds of said Victoria Mill of great value, to wit, of the value of twenty-five dollars (\$25).

This at Newburyport on or about the twenty-sixth day of May, A.D. 1893.

Specification 3. — In this, that Col. J. Albert Mills, commanding Eighth Regiment Infantry, Second Brigade, M. V. M., being an agent of the Victoria Mill of Newburyport and in the employ of said Victoria Mill, was publicly accused of the crime of embezzlement from said Victoria Mill, to wit, by one Daniel H. Kane, and did not deny the truth of said accusation, but admitted said accusation to be true.

This at Newburyport on or about the twenty-sixth day of May, A.D. 1893.

To which charge and specifications the accused Col. J. Albert Mills not appearing in person or by counsel, the judge advocate entered the plea of "not guilty."

Finding.—And the court, having maturely considered the evidence adduced, finds the accused, Col. J. Albert Mills, Eighth Regiment Infantry, Second Brigade, M. V. M., as follows:—

Charge I.—On the first specification, "guilty;" on the second specification, "guilty;" on the third specification, "guilty;" on the charge, "guilty."

And the court does therefore sentence him, Col. J. Albert Mills, Eighth Regiment Infantry, Second Brigade, M. V. M., to be dismissed from the service.

II. The record of proceedings of the general court-martial in the foregoing case of Col. J. Albert Mills, Eighth Regiment Infantry, Second Brigade, M. V. M., having been submitted to the Commander-in-Chief, the following are his orders endorsed thereon:—

EXECUTIVE CHAMBER, BOSTON, June 20, 1893.

The proceedings, findings and sentence in the foregoing case of Col. J. Albert Mills, Eighth Regiment Infantry, Second Brigade, M. V. M., are approved, and the sentence of the court will be carried into effect.

WM. E. RUSSELL,

Governor and Commander-in-Chief.

III. Col. J. Albert Mills, Eighth Regiment Infantry, Second Brigade, M. V. M., is hereby dismissed the military service of the Commonwealth.

IV. The general court-martial, of which Col. Thomas R. Mathews, First Regiment Infantry, M. V. M., is president and Capt. Henry S. Dewey, judge advocate, First Brigade, is judge advocate, is hereby dissolved.

By order of the Commander-in-Chief,

SAMUEL DALTON,

Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, June 28, 1893.

GENERAL ORDERS, No. 10.

I. The following is published for the information of the militia:—

EXECUTIVE DEPARTMENT, BOSTON, June 27, 1893.

After a full and impartial hearing before the judge advocate general on charges preferred by Col. William A. Bancroft, commanding Fifth

Regiment of Infantry, Second Brigade, M. V. M., against Capt. Richard W. Sutton of Company B of his command, and upon consideration of the report of the judge advocate general thereon, it is ordered that Capt. Richard W. Sutton be discharged.

(Signed)

WILLIAM E. RUSSELL,
Governor and Commander-in-Chief.

II. Captain Richard W. Sutton, Company B, Fifth Regiment Infantry, is hereby discharged.

By order of the Commander-in-Chief,

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Aug. 24, 1893.

GENERAL ORDERS, No. 11.

I. Annual drills required by law will take place as follows:—

First Regiment of Infantry at Taunton, October 9.
Second Regiment of Infantry at Northampton, October 7.*
Fifth Regiment of Infantry at Braintree, September 27.†
Sixth Regiment of Infantry at Fitchburg, October 4.‡
Ninth Regiment of Infantry at Boston, October 5.
Battery A, Second Brigade, at Boston, September 25.
Signal Corps, First Brigade, at Boston, October 5.
Signal Corps, Second Brigade, at Malden, October 4.

II. Commanding officers of regiments, battalions and unattached companies will order their commands to assemble at 10 o'clock A.M. at the places and on the dates designated in paragraph I.

They will designate uniform to be worn, but all ceremonies will be performed in full dress. Heavy marching order is optional with commanding officers.

If commanding officers desire, assembly may be ordered at the same hour outside of the city or town limits designated.

The day will be devoted to extended-order drill and street firing.

III. The surgeon general will arrange dates and places for annual drills of the Ambulance Corps, and will through this office order such medical equipment, including the ambulance, as he may deem proper for use of the corps at drill.§

* Date changed to September 21 by Special Orders 108, C. S.

† Date changed to September 28 by Special Orders 105, C. S.

‡ Date changed to October 11 by Special Orders 112, C. S.

§ Ambulance Corps, 1st and 2d Brigade, October 4, Special Orders 111, C. S.

IV. Brigade commanders will detail mustering officers for unattached companies, Signal and Ambulance Corps, of their respective commands.

V. All mustering officers will forward with rolls a letter giving the route travelled of each command, also "list of absentees," and pay rolls will not be received without them; and no officer or man will be mustered for pay who does not perform the full day's duty. Mileage will be allowed by shortest and most direct route to destination and return to stations.

VI. Infantry regiments will be allowed 7,000 rounds of blank ammunition, which will be forwarded on receipt of requisition from regimental headquarters.

VII. All commanding officers will at once, on completion of tour of duty, forward a full report of same to State headquarters.

VIII. Col. William L. Chase, Acting Inspector General, will detail inspecting officers for the several commands.

IX. The superintendent of the State arsenal will arrange to forward horse equipments for use of battalion adjutants and inspecting officers.

X. Commissioned officers desiring to be retired will not resign, but make application for retirement on blanks furnished from this office.

XI. Brigade, Cadet Corps and Naval Brigade commanders are charged with the promulgation of this order.

By order of the Commander-in-Chief,

SAMUEL DALTON,

Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Sept. 1, 1893.

GENERAL ORDERS, No. 12.

I. Capt. Horace W. Wilson, Troop F, Cavalry, First Brigade, Massachusetts Volunteer Militia, having rendered ten years' continuous service as a commissioned officer in the militia of the Commonwealth, is retired, upon his own request, with the rank of captain, as provided in section 54, chapter 367, Acts of 1893.

II. The following-named enlisted men of the Massachusetts Volunteer Militia, having absented themselves from camp duty and annual drill of their commands for the current year, without leave or proper excuse, are hereby discharged for the best interests of the service:—

First Regiment Infantry.—Company C, Privates Barnard F. Owens, George H. Hodgkins, Jr., William J. West; Company D, Private Ralph Webber; Company L, Private Edward C. Moore.

Second Regiment Infantry.—Company H, Privates Fred D. Burnett, George N. Buckley, Charles J. Clark, William Johnson, Albert M. Newman; Company I, Private Edward E. Richards; Company K, Privates Henry S. Kempkes, William H. Ryan.

Fifth Regiment Infantry.—Company B, Privates John H. Dolan, Joseph Dyer, John G. McCann, Richard M. McFadden, Manuel Roman, Lewis J. Hewit; Company E, Private Clifford W. Jackson; Company F, Privates Chester W. Fullerton, George A. Mansfield, Jr., Willard B. Whelpley; Company G, Private George H. Reynolds; Company H, Privates John C. Daley, Dennis W. Sullivan; Company K, Privates Willis F. Askew, Edwin B. Langley, Herbert F. Fahley; Company M, Private Benjamin A. Graves.

Sixth Regiment Infantry.—Company B, Private Winslow D. Conn; Company C, Privates John H. Armstrong, Charles H. Jacques, Ernest E. Jardine, Orra E. Underhill; Company D, Privates John Carey, Noah F. Newstub, Frank E. O'Brien; Company F, Private Herbert A. Emery; Company G, Privates Henry F. Aubrey, James T. Collins, Arthur B. Sargent; Company H, Private Roland E. Bemis; Company I, Private William J. Reed.

Eighth Regiment Infantry.—Company A, Privates John M. Chase, William Ryan, Otis Robbins; Company B, Privates Lester C. Ayer, James Dwyer, Herman C. Kincaid, James Maloney, William A. Mathews, George E. Millar, Fred W. Taylor, Herbert E. Walton; Company D, Private Sherburn T. Davis; Company K, Private Edward P. Flynn; Company L, Private John R. Scott.

Ninth Regiment Infantry.—Company A, Privates Patrick H. Brennan, John J. Parker; Company C, Privates Daniel Clifford, Patrick J. Dooley, John W. Fairbairn, Thomas J. Green, Robert B. Gillies, Harry Kathan, Thomas Lynch, Thomas C. Murphy, John Sullivan, Albert York; Company E, Private Timothy J. Mahoney; Company F, Privates John Taylor, William Barry, Michael P. Daley, Philip Farrelly, James H. Kenney, John W. White; Company G, Privates James J. Gilrain, Joseph A. F. Hogan; Company H, Private William T. Cameron; Company L, Privates Charles O. McCarthy, William L. Dudley, Fred C. Sweeney, Edward J. Walsh; Company M, Corporal Louis Laflamme; Privates Felix McPartlin, Thomas F. Casey, Joseph J. Doyle, James C. Keefe, John Maguire, Thomas W. Maguire, John J. McLaughlin, Patrick Neary, Thomas J. Nevins, Anson G. Thurston, John J. Tobin, William Warner.

Second Corps Cadets.—Privates William W. Mitchell, Edward N. Reed, Albert F. Smith, J. Lincoln Taylor, Martin L. Kirkeby, Arthur R. Pickering, George N. Shay.

Naval Brigade. — Company B, Seaman Harrison G. Bourne; Company E, Seaman George M. Bacon; Company G, Seaman David M. K. Swift.

First Battalion Light Artillery. — Battery B, Corporal Frank Gale; Privates Peter Burdette, George W. Flagg, Edward Harrington, Michael P. Maloney, Terence Sweeney; Battery C, Privates Nelson Butler, George H. Hatfield, John Hoffman, John Hulme, James H. Tomlinson, William L. Whitley.

Battery A, Light Artillery. — Privates Edward C. Daley, John P. Dolphin, Joseph P. Foley, Louis H. Jacobs, Charles P. Maguire, John F. McGill, George P. Reynolds.

Troop F, Cavalry. — Private Percy L. Robinson.

III. The following-named enlisted men have been discharged, for the best interests of the service, for neglect of duty, and the “no objection to re-enlistment” clause erased from their discharge certificate: —

First Regiment Infantry. — Company G, Private Edward F. Williams.

Second Regiment Infantry. — Company K, Private George E. Whitenect.

By order of the Commander-in-Chief,

SAMUEL DALTON,

Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Sept. 9, 1893.

GENERAL ORDERS, No. 13.

I. The State matches will take place at the range of the Massachusetts Rifle Association, Walnut Hill, Woburn, subject to the provisions of General Orders No. 3, with such modifications as have been found necessary or expedient, as herein stated.

The matches will be in charge of Col. Wm. L. Chase, Inspector General of Rifle Practice, who will act as executive and range officer, arrange details, and be responsible for their proper execution.

All communications respecting these matches should be addressed to the Inspector General of Rifle Practice, 233 State Street, Boston.

Regimental inspectors will assure themselves that only reliable shots are on the teams submitted to commanding officers for their approval.

Brigade and regimental inspectors are detailed to report to the Inspector General of Rifle Practice for such duty as may be assigned them.

Maj. F. H. Briggs, 1st Brigade Staff, Lieut. W. B. Clarke, 1st Corps Cadets, and Lieut. E. P. Dodd, Naval Brigade, are detailed to take charge of the statistical department.

Lieut. A. C. Warren, 5th Regiment Infantry, is detailed as mustering officer, and will report to this office for instructions.

Assistant Surgeon H. S. Dearing, 1st Regiment Infantry, is detailed as surgeon.

The foregoing details are for both matches.

Train leaves southern division Boston & Maine Railroad, Causeway Street, at 8.10 A.M., with special car, on the days of the competition.

II. The general State competition will be held Monday, Oct. 2, 1893, at 9.15 A.M.

Each regimental and battalion commander will detail one commissioned officer and one non-commissioned officer to report to the Inspector General of Rifle Practice for such duty as may be assigned them.

Any officer or man under detail, or present on the range, becomes eligible to replace a vacancy in the team of the organization to which he belongs, subject to approval of the Inspector General of Rifle Practice or officer in charge of the competition.

Details should be made with care, and of men interested in shooting; if a fair shot be sent he becomes a tentative substitute, available on emergency.

Entries of teams and individuals must be made to the Inspector General of Rifle Practice on or before September 27. All entries will state the highest class in which qualification has been made by each competitor.

No one will be eligible for the State competition who has not made at least the qualifying scores of first-class marksmen the current target year.

The competition will comprise firing at two hundred and five hundred yards. Seven shots at each range; one sighting shot at five hundred yards. Minimum trigger pull, six pounds, to be tested before or during the competition.

All competitors (except distinguished marksmen) will compete for individual trophies. Medals will be awarded:—

For the five highest aggregate scores, by sharpshooters of record.

For the three highest aggregate scores, by first-class marksmen.

Scores of competitors shooting on the teams will count for individual trophy.

Competitors making the twelve highest aggregate scores, officers or men, will be mentioned in orders.

The tri-color will be the regimental trophy won by the winning team.

III. The State competition for distinguished marksmen will be held Tuesday, October 3, at 9.15 A.M.

Colonel Bancroft, 5th Regiment, Colonel Mathews, 1st Regiment, and Lieutenant-Colonel Edmands, 1st Corps Cadets, will each detail one commissioned officer and four non-commissioned officers to report to the Inspector General of Rifle Practice for such duty as may be assigned them.

Men who become distinguished marksmen at the State match become eligible for the distinguished marksmen match, and such report without special order.

Competitors will notify the Inspector General of Rifle Practice of their intention to compete not later than September 27.

The competition will comprise judging distances while skirmishing, and firing at two hundred, five hundred and six hundred yards. Seven rounds per man at all distances.

One sighting shot allowed at the five hundred and six hundred yard ranges.

Minimum trigger pull, six pounds, to be tested before or during the competition.

The three highest competitors will be recognized by medals.

IV. The names of all officers and non-commissioned officers under detail for the State matches will be sent to the Inspector General of Rifle Practice not later than September 27, that due arrangements may be made preparatory to the match, and shooting begin promptly and with snap.

V. The time limit of sixty seconds per shot will be strictly enforced. The time of every team in the general State competition will be counted from *when it is due at the firing point*, and will not exceed one hour and twenty-four minutes.

The decision of what constitutes debarment of a competitor or team rests with the Inspector General of Rifle Practice, subject to protest. If substantiated, match may be shot out, but if protest fail of substantiation, the score is lost. A substitute may be immediately put on the team, if captains so prefer. The substitute will be subject to the conditions governing firing at the range being shot over, and his score continues that of the debarred competitor, whose score is rendered *nil*, — i. e., shots already made are lost.

Unless general orders are strictly complied with, teams or competitors are liable to be ruled out, without right of protest beyond the Inspector General of Rifle Practice or officer conducting match.

Permission may be asked for later arrival than ordered, but

unless granted forty-eight (48) hours before match, tardiness rules out without right of protest.

VI. At these matches the new target will be used, and the count will be as follows :—

Bull's-eye 8 inches in diameter,	5
Circle 14.80 " " "	4
" 26 " " "	3
" 46 " " "	2
Remainder of target,	1

VII. The Steward Prize, won at Wimbledon by Corp. W. D. Huddleson, 1st Regiment Infantry, presented to the State by the Inspector General, will bear on a plate the annual record of the team winning the tri-color, and the names of officers or men making the five highest scores in the distinguished marksmen competition.

VII. Brigade commanders are charged with the promulgation of this order.

By order of the Commander-in-Chief,
 SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
 ADJUTANT GENERAL'S OFFICE, BOSTON, NOV. 27, 1893.

GENERAL ORDERS, No. 14.

I. The following-named commissioned officers of the Massachusetts Volunteer Militia, having rendered continuous service for a period of ten years and upwards, are, on their own application, retired under the provisions of section 54, chapter 367 of the Acts of the year 1893 :—

Lieut. Col. Frederick W. Merriam, Second Regiment Infantry, Oct. 6, 1893, with the rank of colonel.

First Lieutenant John G. Warner, Paymaster Eighth Regiment Infantry, November 9, with the rank of captain.

II. The following extract from the report of Col. William Leverett Chase, Inspector General of Rifle Practice, covering the rifle competitions for the year 1893, under General Orders Nos. 3 and 13, C. S., is published for the information of the militia :—

A. *Regimental Competitions.*—Company teams of seven, ten shots, at 200 yards.

First Regiment Infantry, August 26 ; the regimental trophy (engraving), "En Batterie," was won by Company B, with a score of 278.

Second Regiment Infantry, September 15 ; the regimental trophy

(engraving), "1806," was won by Company M, with a score of 294.

Fifth Regiment Infantry, September 21; the regimental trophy (engraving), "Le Bourget," was won by Company G, with a score of 268.

Sixth Regiment Infantry, September 22; the regimental trophy (engraving), "Washington and his Generals," was won by Company A, with a score of 299.

Eighth Regiment Infantry, August 28; the regimental trophy (engraving), "Attaque Imprévue," was won by Company D, with a score of 216.

Ninth Regiment Infantry, September 1; the regimental trophy (engraving), "Où Sont-ils? Les Voilà!" was won by Company L, with a score of 273.

First Corps Cadets, July 14; the corps trophy (engraving), "Napoleon," was won by Company D, with a score of 268.

Second Corps Cadets, September 4; the corps trophy (engraving), "Sault aux Blessés," was won by Company C, with a score of 288.

Naval Brigade, September 2; the brigade trophy (engraving), "Wreck of H. M. S. 'Birkenhead,'" was won by Company H, with a score of 271.

Cavalry Battalion (teams of six), September 26; the battalion trophy (engraving), "Rencontre d'un Officier blessé," was won by Troop F, with a score of 223.

B. The State General Competition took place October 2. The competition comprised firing seven shots at 200 and 500 yards. Individual trophies, recognized by medals, were won as follows:—

Sharpshooter Class.—First prize, Sergt. W. E. Sweetser, Company H, Sixth Regiment Infantry, score 61.

Second prize, Sergt. D. M. Bruce, Company C, Second Corps Cadets, score 60.

Third prize, Lieut. F. B. Felton, Company L, Second Regiment Infantry, score 58.

Fourth prize, Sergt. E. E. Baudoin, Company E, First Regiment Infantry, score 58.

Fifth prize, Priv. C. A. Hinds, Company E, Second Regiment Infantry, score 58.

First Class Marksmen.—First prize, Priv. G. E. Worthen, Jr., Company D, Second Corps Cadets, score 60.

Second prize, Seaman F. C. Graves, Company H, Naval Brigade, score 59.

Third prize, Priv. P. A. Mansfield, Company H, Sixth Regiment Infantry, score 58.

The State Team. — The twelve competitors making the highest aggregate scores were as follows : —

Sergt. W. E. Sweetser, Company H, Sixth Regiment Infantry, . . .	61
Priv. G. E. Worthen, Jr., Company D, Second Corps Cadets, . . .	60
Sergt. D. M. Bruce, Company C, Second Corps Cadets, . . .	60
Corp. J. L. Gibbs, Company E, First Regiment Infantry, . . .	60
Sergt. W. D. Huddleson, Company L, First Regiment Infantry, . . .	59
Sergt. G. E. Symonds, Company A, Second Corps Cadets, . . .	59
Seaman F. C. Graves, Company H, Naval Brigade, . . .	59
Priv. P. A. Mansfield, Company H, Sixth Regiment Infantry, . . .	58
Bugler P. S. Killam, Company A, Sixth Regiment Infantry, . . .	58
Lieut. F. B. Felton, Company L, Second Regiment Infantry, . . .	58
Sergt. G. E. Worthen, Company D, Second Corps Cadets, . . .	58
Capt. R. A. Whipple, Company M, Second Regiment Infantry, . . .	58

C. The Sixth Regiment Infantry, by virtue of its team making the best score at the State General Competition, is entitled to carry the tri-color on its colors for the year 1894.

D. The Distinguished Marksman Competition took place October 3. This competition comprised firing seven shots at 200, 500 and 600 yards, and estimating distances at seven halts. Competitors who made the three highest scores won medals.

First prize, Priv. C. A. Hinds, Company E, Second Regiment Infantry.

$$31 + 31 + 32 + 22 = 116.$$

Second prize, Priv. C. E. Horton, Company C, Second Corps Cadets.

$$27 + 30 + 31 + 27 = 115.$$

Third prize, Sergt. W. H. Bean, Company D, Second Corps Cadets.

$$26 + 31 + 25 + 28 = 110.$$

The following competitors made 100 points and over in this competition : —

Priv. W. G. Hussey, Company C, Second Corps Cadets, . . .	107
Priv. J. H. Keough, Company A, Sixth Regiment Infantry, . . .	106
Sergt. W. E. Sweetser, Company H, Sixth Regiment Infantry, . . .	105
Bugler P. S. Killam, Company A, Sixth Regiment Infantry, . . .	105
Capt. R. A. Whipple, Company M, Second Regiment Infantry, . . .	105
Lieut. W. H. Merritt, I. R. P., Second Corps Cadets, . . .	104
Sergt. G. E. Symonds, Company A, Second Corps Cadets, . . .	104
Priv. E. Dimock, Company C, Second Corps Cadets, . . .	103
Corp. J. L. Gibbs, Company E, First Regiment Infantry, . . .	103
Corp. F. P. Smith, Company B, First Corps Cadets, . . .	103
Sergt. E. E. Baudoin, Company E, First Regiment Infantry, . . .	102
Lieut. J. A. Sterling, Company B, Second Regiment Infantry, . . .	102
Lieut. F. B. Felton, Company L, Second Regiment Infantry, . . .	100
Sergt. W. D. Huddleson, Company L, First Regiment Infantry, . . .	100

By order of the Commander-in-Chief,

SAMUEL DALTON,
Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Dec. 1, 1893.

GENERAL ORDERS, No. 15.

I. The following-named enlisted men of the Massachusetts Volunteer Militia, having absented themselves from annual drills of their commands for the current year, without leave or proper excuse, are hereby discharged for the best interests of the service, for neglect of duty : —

Signal Corps, First Brigade. — Private A. Dudley Bagley.

First Regiment Infantry. — Company A, Privates James D. Craig, John J. Flynn, Frederick J. Geary, Alvin F. Gross, William H. Swift; Company E, Privates Richard H. Bennett, John B. Jones; Company G, Privates John W. Beaton, Edward T. Booth, Joseph L. Kelley; Company H, Private Harry T. Smith.

Second Regiment Infantry. — Headquarters, Drummer Patrick J. Flynn; Company A, Private Albert C. Lary; Company E, Private Frank A. Sampson; Company H, Privates Fred Chellis, Daniel J. Connors, Joe Stone; Company L, Privates Burt M. Dow, Frederick A. Morey, George L. Nash.

Fifth Regiment Infantry. — Company C, Private Stephen J. Furdon; Company D, Privates Alphonso Allen, Will Bassett, John T. Croghan, John Donovan, Irvin Parker, Herbert E. Tozier; Company E, Privates Charles F. Lennis, Lee Marshall, George A. Mills; Company F, Privates Richard P. Birmingham, Robert E. Bullard, John J. Collins, William J. Jones, James B. Larkin; Company G, Privates Charles H. Malloy, George W. Waughn; Company H, Privates Robert J. Buchanan, James J. Connors, Edwin H. Church, Henry F. Halloran, Joseph D. Kelley, William H. Riley, John J. Waters, Patrick F. Wall; Company K, Privates George Walsh, George W. McLeod; Company M, Privates Herbert T. Bond, Charles E. Cook.

Sixth Regiment Infantry. — Company C, Privates George F. Beherral, Herman W. Crooker; Company D, Privates Antoine Gagnon, Ectos Lapan; Company F, Privates Joseph L. Lippard, Walter E. Nourse, George E. Stevens; Company G, Privates Frank M. Bell, Clarence L. Gardner, Floyd J. Mattoon, Alfred Payer; Company I, Privates James A. Grimes, Howard B. Jackson.

Ninth Regiment Infantry. — Company A, Private Daniel Leahy; Company B, Private Dennis J. Burnett; Company C, Privates Michael Donahue, William P. Fallon, John Ferris, John Glynn, Michael Kelly, John A. McCarthy; Company F, Privates Thomas Clark, Patrick E. Farrelly, John B. Lilly, Jere. J. Sullivan; Com-

pany K, Privates John P. Barnes, James H. Ennis, Patrick J. Ferguson, John Gibbons, Michael H. Hanney, James McConville, John Sweeney; Company M, Privates Charles E. Stillings, Thomas W. Kelleher, Michael J. Miskell.

Battery A, Light Artillery. — Private John F. Hines.

II. The following-named enlisted men have been discharged, and the "no objection clause" erased, for misdemeanor: —

Fifth Regiment Infantry. — Company H, Private William H. Henderson.

Ninth Regiment Infantry. — Company A, Private Richard J. Wentworth.

By order of the Commander-in-Chief,

SAMUEL DALTON,

Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Dec. 22, 1893.

GENERAL ORDERS, No. 16.

I. The following is published for the information of the militia: —

EXECUTIVE DEPARTMENT, BOSTON, Dec. 21, 1893.

After a full and impartial hearing before the judge advocate general on charges preferred by Capt. Jeremiah G. Fennessey, commanding Company E, Ninth Regiment of Infantry, Second Brigade, M. V. M., against Second Lieut. Richard H. Foley of his command; and upon consideration of the report of the judge advocate general thereon, it is ordered that Lieut. Richard H. Foley be discharged.

(Signed)

W. E. RUSSELL,

Governor and Commander-in-Chief.

II. Second Lieut. Richard H. Foley, Company E, Ninth Regiment Infantry, Second Brigade, M. V. M., is hereby discharged.

III. Brigade, naval brigade and cadet corps commanders are charged with the promulgation of this order.

By order of the Commander-in-Chief,

SAMUEL DALTON,

Adjutant General.

COMMONWEALTH OF MASSACHUSETTS,
ADJUTANT GENERAL'S OFFICE, BOSTON, Dec. 30, 1893.

GENERAL ORDERS, No. 17.

I. The following-named staff officers of the Commander-in-Chief are hereby honorably discharged from the service of the

State, to take effect Jan. 3, 1894, on account of expiration of service :—

Maj. Gen. Samuel Dalton, Boston, Adjutant General.
Brig. Gen. Francis Peabody, Jr., Boston, Judge Advocate General.
Brig. Gen. Charles H. Taylor, Boston, Commissary General.
Col. Walter Cutting, Pittsfield, Aide-de-Camp.
Col. Michael T. Donohoe, Boston, Aide-de-Camp.
Col. Spencer Borden, Fall River, Aide-de-Camp.
Col. D. Howard Vincent, Boston, Aide-de-Camp.
Col. William L. Chase, Boston, Inspector General Rifle Practice and Acting Inspector General.
Col. George A. Keeler, Boston, Assistant Inspector General.
Col. Henry D. Andrews, Boston, Assistant Inspector General.
Col. Frederick G. King, Boston, Assistant Inspector General.
Col. James L. Carter, Boston, Assistant Inspector General.
Col. James E. Delaney, Holyoke, Assistant Adjutant General.
Col. William A. Gaston, Boston, Assistant Adjutant General.
Col. John H. Cunningham, Boston, Assistant Adjutant General.
Col. Henry E. Russell, Boston, Assistant Adjutant General.
Col. John T. Wheelwright, Boston, Assistant Adjutant General.
Col. John E. Thayer, Lancaster, Assistant Quartermaster General.
Col. James H. Carmichael, Lowell, Assistant Quartermaster General.
Col. Horace B. Verry, Worcester, Assistant Quartermaster General.
Col. Percy Parker, Lowell, Assistant Quartermaster General.

II. Brig. Gen. Thomas Kittredge, Surgeon General, having rendered continuous service for a period of ten years and upwards, is, on his own application, retired under the provisions of section 54, chapter 367 of the Acts of the year 1893, to date from Jan. 3, 1894.

III. In accepting the resignations of the officers of his staff, the Commander-in-Chief desires to express his regard for them personally and his high appreciation of their prompt and courteous performance of duty.

IV. In taking leave of the militia, he desires to commend the officers and men for continued improvement, and tenders his thanks for many courtesies.

V. Brigade and cadet corps commanders are charged with the promulgation of this order.

By order of the Commander-in-Chief,

SAMUEL DALTON,

Adjutant General.

APPENDIX.

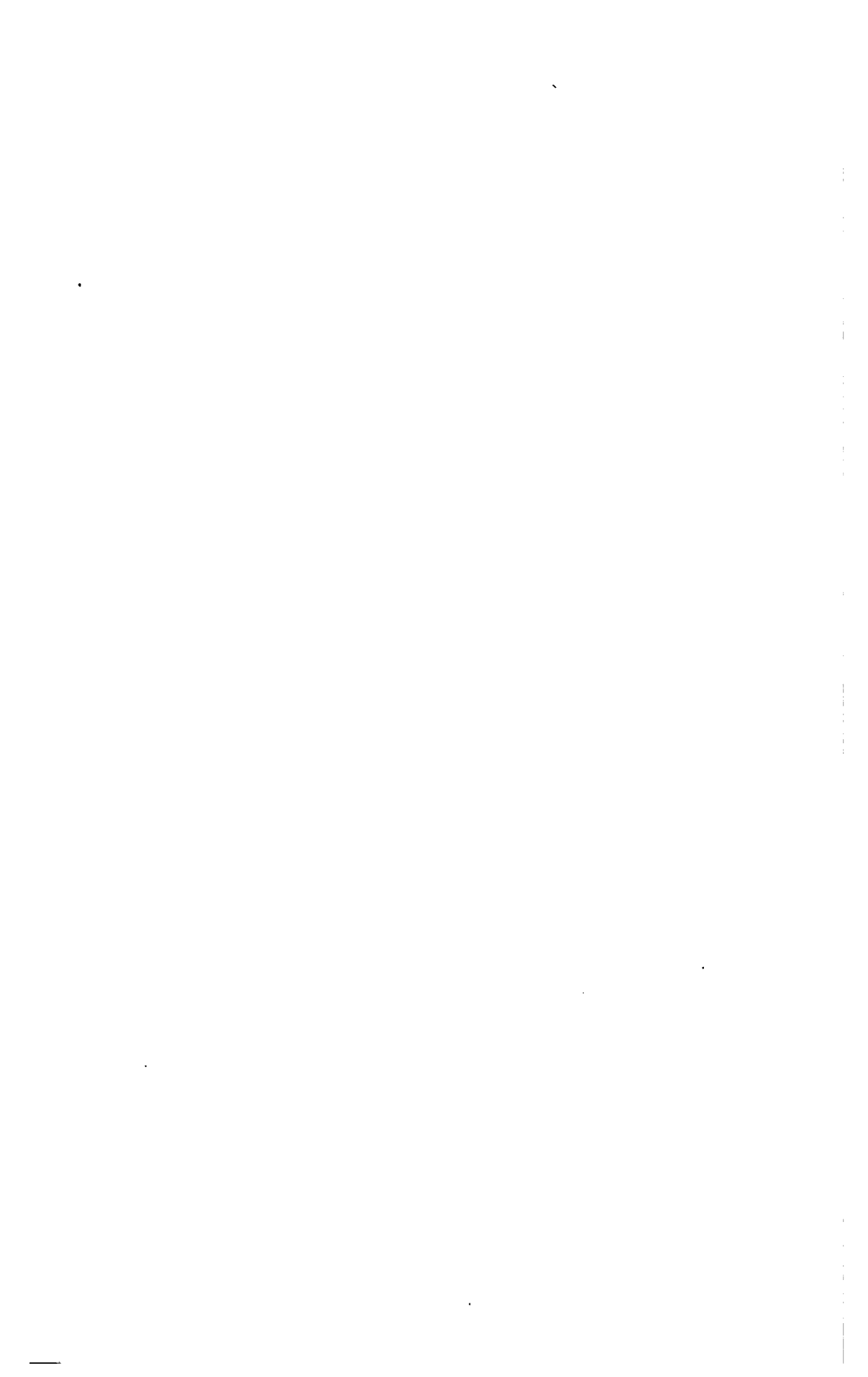


TABLE NO. 1. — *Enrolled Militia of 1893, showing by Counties the Number of Persons between the Ages of 18 and 45 Years liable to Military Duty.*

COUNTIES.	1892.	1893.	Increase.	Decrease.
Barnstable, . . .	2,611	2,369	77	319
Berkshire, . . .	10,637	12,138	1,676	175
Bristol,	28,527	29,470	1,172	229
Dukes,	477	417	22	82
Essex,	49,022	51,492	3,233	763
Franklin, . . .	6,041	6,771	854	124
Hampden, . . .	17,732	18,143	1,255	844
Hampshire, . . .	7,073	7,479	432	26
Middlesex, . . .	84,804	87,935	4,569	1,438
Nantucket, . . .	375	375	—	—
Norfolk,	18,641	19,128	1,737	1,250
Plymouth, . . .	16,624	18,781	2,333	176
Suffolk,	85,306	87,617	2,311	—
Worcester, . . .	45,755	49,208	4,590	1,137
Totals,	373,625	391,323	24,261	6,563
Net gain,				17,698

TABLE NO. 2. — *Organization of Volunteer Militia.*

FIRST BRIGADE — BRIGADIER GENERAL BENJAMIN F. BRIDGES, BOSTON.									
First Regiment Infantry,	12 companies, . . . . .	. . . . .	. . . . .	. . . . .	Colonel,	Thomas R. Mathews, . . . . .	. . . . .	Boston.	
Second Regiment Infantry,	12 companies, . . . . .	. . . . .	. . . . .	. . . . .	Colonel,	Embury P. Clark, . . . . .	. . . . .	Springfield.	
Sixth Regiment Infantry,	12 companies, . . . . .	. . . . .	. . . . .	. . . . .	Colonel,	Henry Parsons, . . . . .	. . . . .	Marlborough.	
First Battalion Artillery,	2 batteries, 4 guns and 2 Gatlings each, . . . . .	. . . . .	. . . . .	. . . . .	Major,	Lawrence N. Duchesney, . . . . .	. . . . .	Lawrence.	
Company F, Cavalry, . . . . .	— . . . . .	. . . . .	. . . . .	. . . . .	Captain,	Elisba H. Shaw, . . . . .	. . . . .	Chelmsford.	
Signal Corps, . . . . .	— . . . . .	. . . . .	. . . . .	. . . . .	First Lieutenant,	John A. Hunneman, . . . . .	. . . . .	Boston.	
Ambulance Corps, . . . . .	— . . . . .	. . . . .	. . . . .	. . . . .	First Lieutenant,	Myles Standish, . . . . .	. . . . .	Boston.	
SECOND BRIGADE — BRIGADIER GENERAL BENJAMIN F. PEACH, JR., LYNN.									
Fifth Regiment Infantry,	12 companies, . . . . .	. . . . .	. . . . .	. . . . .	Colonel,	William A. Bancroft, . . . . .	. . . . .	Cambridge.	
Ninth Regiment Infantry,	12 companies, . . . . .	. . . . .	. . . . .	. . . . .	Colonel,	Fred'k B. Bogan, . . . . .	. . . . .	Boston.	
Eight Regiment Infantry,	12 companies, . . . . .	. . . . .	. . . . .	. . . . .	Colonel,	Charles L. Dodge, . . . . .	. . . . .	Beverly.	
Battery A, Light Artillery,	4 guns and 2 Gatlings, . . . . .	. . . . .	. . . . .	. . . . .	Captain,	Dexter H. Follett, . . . . .	. . . . .	Boston.	
First Battalion Cavalry,	2 companies, . . . . .	. . . . .	. . . . .	. . . . .	Major,	Horace G. Kemp, . . . . .	. . . . .	Cambridge.	
Signal Corps, . . . . .	— . . . . .	. . . . .	. . . . .	. . . . .	First Lieutenant,	Henry W. Sprague, . . . . .	. . . . .	Boston.	
Ambulance Corps, . . . . .	— . . . . .	. . . . .	. . . . .	. . . . .	First Lieutenant,	Arthur W. Clark, . . . . .	. . . . .	Boston.	
CORPS OF CADETS AND NAVAL BATTALION — UNATTACHED.									
First Corps Cadets,	4 companies, . . . . .	. . . . .	. . . . .	. . . . .	Lieut. Colonel,	Thomas F. Edmands, . . . . .	. . . . .	Boston.	
Second Corps Cadets,	4 companies, . . . . .	. . . . .	. . . . .	. . . . .	Lieut. Colonel,	John W. Hart, . . . . .	. . . . .	Salem.	
Naval Brigade,	8 companies, . . . . .	. . . . .	. . . . .	. . . . .	Captain,	John C. Soley, . . . . .	. . . . .	Boston.	

TABLE NO. 3.—*Locations of Headquarters of Brigades, Regiments, Battalions and Armories of Companies, by Cities, Towns and Counties.*

CITY OR TOWN.	COUNTY.	HEADQUARTERS.	Regiment.	Companies of Infantry and Naval Brigade.	Companies of Cavalry.	Batteries of Artillery.	Signal Corps.	Ambulance Corps.	Totals.
Adams, .	Berkshire, .	-	2d,	M, . . .	-	-	-	-	1
Amesbury, .	Essex, .	-	8th,	B, . . .	-	-	-	-	1
Amherst, .	Hampshire, .	-	2d,	K, . . .	-	-	-	-	1
Attleborough, .	Bristol, .	-	5th,	I, . . .	-	-	-	-	1
Beverly, .	Essex, .	-	8th,	E, . . .	-	-	-	-	1
Boston, .	Suffolk, .	1st Corps Cadets, .	-	A, B, C, D, .	-	-	-	-	4
" . . .	" . . .	1st Brigade, .	-	-	-	-	-	-	-
" . . .	" . . .	1st " . . .	-	-	-	-	1st,	-	-
" . . .	" . . .	2d " . . .	-	-	-	-	-	-	-
" . . .	" . . .	2d " . . .	-	-	-	-	2d, 1st,	-	-
" . . .	" . . .	1st Regiment, .	-	{ A, C, D, G, K, L, . . . }	-	-	-	-	6
" . . .	" . . .	5th Regiment, .	-	A, H, . . .	-	-	-	-	2
" . . .	" . . .	-	6th,	L, . . .	-	-	-	-	1
" . . .	" . . .	9th Regiment, .	-	{ A, B, C, D, E, H, I, . . . }	-	-	-	-	7
" . . .	" . . .	1st Bat. Cavalry, .	-	-	A, D, .	-	-	-	2
" . . .	" . . .	-	-	-	-	A, .	-	-	1
" . . .	" . . .	Naval Battalion, .	-	A, B, C, D, .	-	-	-	-	4
Brantree, .	Norfolk, .	-	5th,	K, . . .	-	-	-	-	1
Brockton, .	Plymouth, .	-	1st,	I, . . .	-	-	-	-	1
Cambridge, .	Middlesex, .	-	1st,	B, . . .	-	-	-	-	1
Cambridge, .	Middlesex, .	-	5th,	B, . . .	-	-	-	-	1
Chelsea, .	Suffolk, .	-	1st,	H, . . .	-	-	-	-	1
Clinton, .	Worcester, .	-	9th,	K, . . .	-	-	-	-	1
Concord, .	Middlesex, .	-	6th,	I, . . .	-	-	-	-	1
Danvers, .	Essex, .	-	8th,	K, . . .	-	-	-	-	1
Deerfield, .	Franklin, .	-	2d,	H, . . .	-	-	-	-	1
Fall River, .	Bristol, .	-	1st,	M,* . . .	-	-	-	-	2
Fitchburg, .	Worcester, .	-	6th,	B, D, . . .	-	-	-	-	2
Framingham, .	Middlesex, .	-	6th,	E, . . .	-	-	-	-	1
Gardner, .	Worcester, .	-	2d,	F, . . .	-	-	-	-	1
Gloucester, .	Essex, .	-	8th,	G, . . .	-	-	-	-	1
Greenfield, .	Franklin, .	-	2d,	L, . . .	-	-	-	-	1
Haverhill, .	Essex, .	-	8th,	F, . . .	-	-	-	-	1
Hudson, .	Middlesex, .	-	5th,	M, . . .	-	-	-	-	1
Holyoke, .	Hampden, .	-	2d,	D, . . .	-	-	-	-	1
Lawrence, .	Essex, .	1st Bat. Lt. Art., .	-	-	-	C, .	-	-	1
Lawrence, .	Essex, .	-	9th,	F, . . .	-	-	-	-	1
Lowell, .	Middlesex, .	-	6th,	C, G, M, . . .	-	-	-	2d,	3
" . . .	" . . .	-	9th,	M, . . .	-	-	-	-	1
" . . .	" . . .	-	2d C'd'ts	D, . . .	-	-	-	-	1
Lynn, .	Essex, .	-	8th,	D, I,† . . .	-	-	-	-	3
Malden, .	Middlesex, .	-	5th,	L, . . .	-	-	-	-	1
Marblehead, .	Essex, .	-	8th,	C, . . .	-	-	-	-	1
Marlborough, .	Middlesex, .	6th Regiment, .	6th,	F, . . .	-	-	-	-	1

* Co. F, Naval Brigade.

† Co. E, Naval Brigade.

TABLE NO. 8 — Concluded.

CITY OR TOWN.	COUNTY.	HEADQUARTERS.	Regiment.	Companies of Infantry and Naval Bri- gade.	Companies of Cavalry.	Batteries of Artillery.	Signal Corps.	Ambulance Corps.	Total.
Medford, .	Middlesex,	-	5th,	E, . .	-	-	-	-	1
Milford, .	Worcester,	-	6th,	M, . .	-	-	-	-	1
New Bedford, .	Bristol, .	-	1st,	E,* . .	-	-	-	-	2
Newburyport, .	Essex, .	-	8th,	A, . .	-	-	-	-	1
Northampton, .	Hampshire,	-	2d,	I, . .	-	-	-	-	1
Newton, .	Middlesex,	-	5th,	C, . .	-	-	-	-	1
Natick, .	Middlesex,	-	9th,	L, . .	-	-	-	-	1
N. Andover, .	Essex, .	-	8th,	L, . .	-	-	-	-	1
Orange, .	Franklin, .	-	2d,	E, . .	-	-	-	-	1
Plymouth, .	Plymouth, .	-	5th,	D, . .	-	-	-	-	1
Salem, .	Essex, .	2d Corps Cadets,	-	A, B, C, .	-	-	-	-	3
Salem, .	Essex, .	8th Regiment, .	8th,	H, . .	-	-	-	-	1
Somerville, .	Middlesex,	-	8th,	M, . .	-	-	-	-	1
Southbridge, .	Worcester,	-	6th,	K, . .	-	-	-	-	1
Springfield, .	Hampden, .	2d Regiment, .	2d,	-	-	-	-	-	-
Springfield, .	Hampden, .	-	2d,	B, G,† .	-	-	-	-	3
Stoneham, .	Middlesex,	-	6th,	H, . .	-	-	-	-	1
Taunton, .	Bristol, .	-	1st,	F, . .	-	-	-	-	1
Wakefield, .	Middlesex,	-	6th,	A, . .	-	-	-	-	1
Waltham, .	" .	-	5th,	F, . .	-	-	-	-	1
Westford, .	" .	-	-	-	F,† .	-	-	-	1
Woburn, .	" .	-	5th,	G, . .	-	-	-	-	1
Worcester, .	Worcester,	-	2d,	A, C, .	-	-	-	-	2
" .	" .	-	-	-	-	B, .	-	-	1
" .	" .	-	9th,	G, . .	-	-	-	-	1

* Co. G, Naval Brigade.

† Co. H, Naval Brigade.

‡ Detachments at Carlisle, Chelmsford and North Chelmsford.

TABLE No. 4.—*Armory Rent Roll.*

CITY OR TOWN.	ORGANIZATION.	Amount re- turned by City or Town.	Amount al- lowed.
Adams, . . .	Co. M, Second Regiment Infantry, . .	\$450 00	\$400 00
Amesbury,* . .	B, Eighth " " . . .	-	-
Amherst, . . .	K, Second " " . . .	200 00	200 00
Attleborough, . .	I, Fifth, " " . . .	600 00	400 00
Ayer, . . .	F, Cavalry (detachment) to March 1, 1893, . . .	16 67	16 67
Beverly, . . .	E, Eighth Regiment Infantry, . .	400 00	400 00
Boston, . . .	Headquarters First Brigade, . .	500 00	200 00
" . . .	" Second Brigade, . .	900 00	200 00
" . . .	" Ambulance Corps, 2d Brigade, . . .	100 00	100 00
" . . .	" First Reg't Infantry, . .	200 00	200 00
" . . .	" Fifth " " . . .	200 00	200 00
" . . .	" Ninth " " . . .	200 00	200 00
" . . .	" First Batt'n Cavalry, . .	200 00	200 00
" . . .	Co. A, First Regiment Infantry, . .	400 00	400 00
" . . .	C, " " " . . .	400 00	400 00
" . . .	D, " " " . . .	400 00	400 00
" . . .	G, " " " . . .	400 00	400 00
" . . .	K, " " " . . .	400 00	400 00
" . . .	L, " " " . . .	400 00	400 00
" . . .	A, Fifth, " " . . .	1,200 00	100 00
" . . .	H, Fifth, " " . . .	400 00	100 00
" . . .	L, Sixth, " " . . .	1,085 00	100 00
" . . .	A, Ninth, " " . . .	400 00	400 00
" . . .	B, " " " . . .	400 00	400 00
" . . .	C, " " " . . .	400 00	400 00
" . . .	D, " " " . . .	400 00	100 00
" . . .	E, " " " . . .	400 00	400 00
" . . .	H, " " " . . .	400 00	400 00
" . . .	I, " " " . . .	400 00	400 00
" . . .	Headquarters Naval Battalion, . .	200 00	200 00
" . . .	Co. A, Naval Battalion, . . .	400 00	400 00
" . . .	B, " " " . . .	400 00	400 00
" . . .	C, " " " . . .	400 00	400 00
" . . .	D, " " " . . .	400 00	400 00
" . . .	First Corps Cadets, . . .	3,800 00	600 00
" . . .	Co. A, First Battalion Cavalry, . .	2,000 00	600 00
" . . .	Co. D, First Battalion Cavalry, . .	1,200 00	600 00
" . . .	Battery A, Light Artillery, . .	2,787 68	300 00
" . . .	Signal Corps, First Brigade, . .	200 00	200 00
" . . .	Signal Corps, Second Brigade, . .	200 00	200 00
Brockton, . . .	Co. I, First Regiment Infantry, . .	600 00	400 00
Braintree, . . .	K, Fifth " " . . .	400 00	400 00
Cambridge, . . .	B, First " " . . .	400 00	400 00
Cambridge, . . .	B, Fifth " " . . .	400 00	400 00
Carlisle, . . .	F, Cavalry (detachment), . .	75 00	75 00
Chelmsford, . . .	F, Cavalry (detachment), . .	200 00	200 00
Chelsea, . . .	H, First Regiment Infantry, . .	1,000 00	400 00
Concord, . . .	I, Sixth " " . . .	400 00	400 00
Clinton, . . .	K, Ninth " " . . .	700 00	400 00
Danvers, . . .	K, Eighth " " . . .	400 00	400 00
Deerfield, . . .	H, Second " " . . .	40 00	300 00
Fall River, . . .	M, First " " . . .	400 00	250 00
Fall River, . . .	F, Naval Brigade, . . .	600 00	200 00
Fitchburg,* . . .	B, Sixth Regiment Infantry, . .	-	-
Fitchburg,* . . .	D, Sixth " " . . .	-	-
Frammingham, . .	E, Sixth " " . . .	514 00	250 00
Gardner, . . .	F, Second " " . . .	400 00	300 00
Carried forward, . . .		\$30,528 35	\$16,991 67

* No return.

TABLE No. 4. — Concluded.

CITY OR TOWN.	ORGANIZATION.	Amount re- turned by City or Town.	Amount al- lowed.
	<i>Brought forward,</i>	\$30,528 35	\$16,991 67
Gloucester, .	Co. G, Eighth Regiment Infantry, .	1,000 00	300 00
Greenfield, .	L, Second " " .	400 00	400 00
Haverhill, .	F, Eighth " " .	600 00	300 00
Hudson, .	M, Fifth " " .	600 00	400 00
Holyoke, .	Headquarters Second Reg't Infantry, to February 10, .	38 88	22 21
Holyoke, .	Co. D, Second Reg't Infantry, .	400 00	200 00
Lawrence, .	Headquarters First Batt'n Art'y, Co. F, Ninth Regiment Infantry, .	200 00	200 00
"	Battery C, First Artillery, .	583 32	400 00
"	"	600 00	600 00
Lowell, .	Co. C, Sixth Regiment Infantry, .	400 00	400 00
"	G, Sixth " " .	400 00	400 00
"	M, Ninth " " .	400 00	400 00
"	D, Second Corps Cadets, .	400 00	400 00
"	Ambulance Corps, First Brigade, .	100 00	100 00
Lynn, .	Co. D, Eighth Regiment Infantry, .	1,000 00	400 00
"	I, " " " .	1,000 00	400 00
"	E, Naval Brigade, .	200 00	200 00
Marblehead, .	C, Eighth Regiment Infantry, .	400 00	300 00
Marlborough, .	Headquarters Sixth Regiment Infantry, .	200 00	200 00
Marlborough, .	Co. F, Sixth Regiment Infantry, .	400 00	400 00
Medford, .	E, Fifth " " .	360 00	200 00
Milford, .	M, Sixth " " .	300 00	300 00
Malden, .	L, Fifth " " .	400 00	400 00
Natick, .	L, Ninth " " .	400 00	300 00
New Bedford, .	E, First " " .	700 00	400 00
New Bedford, .	G, Naval Brigade, .	800 00	200 00
Northampton, .	I, Second Regiment Infantry, .	400 00	400 00
Newburyport, .	A, Eighth " " .	700 00	350 00
No. Andover, .	L, Eighth " " .	400 00	300 00
Newton, .	C, Fifth " " .	400 00	400 00
Orange, .	E, Second " " .	400 00	400 00
Plymouth, .	D, Fifth " " .	400 00	400 00
Salem, .	Second Corps Cadets, .	1,500 00	1,000 00
"	Headquarters Eighth Reg't Infantry, .	400 00	200 00
"	Co. H, Eighth Regiment Infantry, .	550 00	300 00
Stoneham, .	H, Sixth " " .	600 00	400 00
Southbridge, .	K, Sixth " " .	400 00	400 00
Somerville, .	M, Eighth " " .	400 00	400 00
Springfield, .	B, Second " " .	400 00	400 00
"	G, Second " " .	400 00	400 00
" *	H, Naval Brigade, .	266 67	166 66
" †	Headquarters Second Reg't Infantry, from February 11, .	200 00	189 72
Taunton, .	Co. F, First Regiment Infantry, .	1,200 00	400 00
Wakefield, ‡	A, Sixth " " .	-	-
Waltham, .	F, Fifth " " .	800 00	400 00
Westford, .	F, Cavalry, .	175 00	175 00
Woburn, .	G, Fifth Regiment Infantry, .	400 00	300 00
Worcester, .	A, Second " " .	400 00	400 00
"	C, Second " " .	400 00	400 00
"	G, Ninth " " .	400 00	400 00
"	Battery B, First Artillery, .	600 00	600 00
		\$55,002 22	\$34,395 26

* May 1 to January 1.

† February 10 to January 1.

‡ No return.

TABLE No. 5. — *Property Account.*

ARTICLES.	On Hand Jan. 1, 1888.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Arsenal.	In Possession of Militia.	In Possession of Office, Towns, etc.	Property of the United States.
<i>Guns, Carriages, etc.</i>													
Bronze, 12-pdrs.,	5	-	-	-	5	-	-	-	5	-	5	-	-
3-inch rifle guns, model of 1861,	8	-	-	-	8	-	-	-	8	-	8	-	-
Carriages and limber, 12-pdrs.,	5	-	-	-	5	-	-	-	5	-	5	-	-
Caissons and limber, 12-pdrs.,	5	-	-	-	5	-	-	-	5	-	5	-	-
Carriage and limber, 10-pdrs.,	8	-	-	-	8	-	-	-	8	-	8	-	-
Caissons and limber, 10-pdrs.,	8	-	-	-	8	-	-	-	8	-	8	-	-
Spare wheels,	15	-	-	-	15	-	-	-	15	3	12	-	8
Spare poles,	25	-	-	-	25	2	-	2	23	11	12	-	8
10-inch Rodman,	2	-	-	-	2	-	-	-	2	2	-	-	-
Carriages for do.,	2	-	-	-	2	-	-	-	2	2	-	-	-
10-inch siege mortars,	4	-	-	-	4	-	-	-	4	4	-	-	-
Platform for do.,	4	-	-	-	4	-	-	-	4	4	-	-	-
Wooden mortars,	3	-	-	-	3	-	-	-	3	-	3	-	-
<i>Gallings, etc.</i>													
Gatling guns,	6	1	-	-	7	-	-	-	7	-	7	-	-
Gatling carriages,	6	1	-	-	7	-	-	-	7	-	7	-	-
Gatling limbers,	6	1	-	-	7	-	-	-	7	-	7	-	-
Feed magazines,	28	-	-	-	28	-	-	-	28	-	28	-	-
Handspikes,	12	-	-	-	12	1	-	1	11	-	11	-	-

TABLE No. 5 — Continued.

ARTICLES.	On Hand Jan. 1, 1888.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Arsenal.	In Possession of Militia.	In Possession of Cities, Towns, etc.	Property of the United States.
Gun covers,	6	-	-	-	6	-	-	-	6	-	6	-	-
Wiping rods,	6	-	-	-	6	-	-	-	6	-	6	-	-
Pin wrenches,	6	-	-	-	6	-	-	-	6	-	6	-	-
"T" screw-drivers,	6	-	-	-	6	-	-	-	4	-	4	-	-
Small screw-drivers,	6	-	-	-	6	-	-	-	6	-	6	-	-
Lock screw-drivers,	6	-	-	-	6	-	-	-	6	-	6	-	-
Drifts,	6	-	-	-	6	-	-	-	6	-	6	-	-
Cam extractors,	6	-	-	-	6	-	-	-	6	-	6	-	-
Pointing levers,	6	-	-	-	6	-	-	-	6	-	6	-	-
Oilers,	6	-	-	-	6	-	-	-	6	-	6	-	-
Screw wrenches,	6	-	-	-	6	-	-	-	6	-	6	-	-
Riveting hammers,	6	-	-	-	6	-	-	-	6	-	6	-	-
Arm chests,	6	-	-	-	6	-	-	-	6	-	6	-	-
<i>Guns, etc., Naval Battalion.</i>													
3-inch Hotchkiss gun,	1	-	1	-	2	-	-	-	2	-	2	-	-
Carriage for do.,	1	-	1	-	2	-	-	-	2	-	2	-	-
Sponge head and rammer for do.,	-	-	1	-	1	-	-	-	1	-	1	-	-
3-inch B. L. directing bar,	-	-	1	-	1	-	-	-	1	-	1	-	-
3-inch B. L. bristle and sponge,	-	-	1	-	1	-	-	-	1	-	1	-	-
3-inch B. L. sponge bucket,	-	-	1	-	1	-	-	-	1	-	1	-	-
3-inch B. L. howitzers,	1	-	1	-	2	-	-	-	1	-	1	-	-
3-inch elevator screws,	1	-	1	-	2	-	-	-	1	-	1	-	-

TABLE No. 5.—Continued.

ARTICLES.	On Hand Jan. 1, 1888.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1884.	At State Arsenal.	In Possession of Militia.	In Possession of Cities, Towns, etc.	Property of the United States.
<i>Rifles, etc.</i>													
Lee magazine rifles,	208	-	208	-	416	-	-	-	416	-	416	-	-
Lee bayonets,	208	-	208	-	416	-	-	-	416	-	416	-	-
Detachable magazines,	832	-	832	-	1,664	-	-	-	1,664	-	1,664	-	-
Springfield rifles, cal. .45",	5,943	-	-	13	5,956	-	-	-	5,956	1,311	4,645	-	2,147
Springfield bayonets, cal. .45",	5,797	-	-	12	5,809	-	-	-	5,809	1,251	4,558	-	2,155
Springfield rifles, cal. .58",	150	-	-	-	150	-	-	-	150	-	-	150	-
Springfield bayonets, cal. .58",	172	-	-	-	172	-	22	-	-	-	-	150	-
Peabody rifles, cal. .439",	34	-	-	-	34	-	-	-	34	-	-	34	-
Spencer rifles,	9	-	-	-	9	-	-	-	9	-	-	9	-
Gun slings,	6,191	-	1,408	-	7,599	1,212	-	1,212	6,387	1,383	5,004	102	3,248
Tompions,	102	-	-	-	102	-	-	-	102	-	-	-	-
Springfield carbines,	247	-	-	-	247	-	-	-	247	9	238	-	-
Carbine slings,	248	-	-	-	248	-	-	-	248	26	222	-	-
Carbine sling swivels,	246	-	-	-	246	-	-	-	246	24	222	-	-
Carbine sockets and straps,	267	-	-	-	267	15	-	15	252	28	224	-	-
Winchester repeating rifles,	-	12	-	-	12	-	-	-	12	12	-	-	-
<i>Side-arms.</i>													
Artillery sabres,	279	-	-	-	279	5	-	5	274	89	285	-	-
Cavalry sabres,	552	-	-	-	552	-	2	2	550	279	271	-	-
Swords, non-com. staff,	95	-	-	-	95	8	-	8	87	1	86	-	-

TABLE No. 5 — Continued.

ARTICLES.	On Hand Jan. 1, 1898.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1898.	At State Arsenal.	In Possession of Militia.	In Possession of Cities, Towns, etc.	Property of the United States.
Vent punches,	2	-	-	-	2	7	-	7	2	1	1	-	-
Water buckets, artillery,	79	-	-	-	79	7	-	7	72	13	59	-	-
Wiping rods,	1,326	-	-	-	1,326	63	-	63	1,263	1,083	180	-	1,149
Worms and staves,	18	-	-	-	18	4	-	4	14	2	12	-	-
Woollen sponge covers,	1	-	-	-	1	-	-	-	1	-	1	-	-
<i>Harness and Horse Equipments.</i>													
Breastplates,	307	9	-	-	316	1	-	1	315	11	304	-	-
Bridles, cavalry and artillery,	300	9	-	4	313	-	-	-	313	9	304	-	-
Bridles, infantry,	7	-	-	2	9	-	-	-	9	9	-	-	-
Blankets, gray, single,	148	-	-	-	148	-	-	-	148	148	-	-	-
Blankets, horse,	375	-	-	-	375	47	1	48	327	100	227	-	-
Collars, spare,	136	-	-	-	136	-	-	-	136	126	10	-	-
Curry-combs,	178	-	-	-	178	26	8	34	144	7	137	-	-
Horse brushes,	167	-	-	-	167	25	5	30	137	4	133	-	-
Horse covers, oil,	2	-	-	-	2	-	-	-	2	2	-	-	-
Harnesses, sets, wheel,	24	-	-	-	24	-	-	-	24	-	24	-	-
Harnesses, sets, lead,	24	-	-	-	24	-	-	-	24	-	24	-	-
Harnesses, Gating sets,	6	-	-	-	6	-	-	-	6	-	6	-	-
Halters,	256	-	-	-	256	16	2	18	238	48	195	-	-
Hitching ropes,	48	-	-	-	48	-	-	-	48	48	-	-	-
Martingales,	319	-	-	-	319	2	-	2	317	13	304	-	-
Nose-bags,	432	-	-	-	432	19	-	19	413	98	320	-	-

TABLE No. 5 — Continued.

ARTICLES.	On Hand Jan. 1, 1888.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Arsenal.	In Possession of Mills.	In Possession of Cities, Towns, etc.	Property of the United States.
Waist-belts.	5,061	815	-	-	5,876	71	810	881	4,995	356	4,639	-	-
Waist-belt plates.	5,335	15	-	-	5,350	129	154	283	5,067	398	4,669	-	-
Waist-belt toggles.	258	800	-	-	1,058	306	-	306	752	752	-	-	-
Web cartridge belts (Mills).	208	-	208	-	416	-	-	-	416	-	416	-	-
<i>Ammunition.</i>													
Ammunition boxes.	1	-	-	-	1	-	-	-	1	-	1	-	-
Ball cartridges, cal. .45".	94,612	-	50,000	-	144,612	61,067	-	61,067	83,545	81,540	2,005	-	142,612
Ball cartridges, 5 grain.	3,150	-	-	-	3,150	-	-	-	3,150	3,100	50	-	-
Ball cartridges, U. M. C. C.	13,638	-	-	-	13,638	-	-	-	13,638	13,638	-	-	-
Blank cartridges, cal. .45".	21,550	-	30,000	-	51,550	42,450	-	42,450	9,100	7,600	1,500	-	-
Blank cartridges, 10-pdrs.	-	-	-	729	729	400	-	400	329	329	-	-	-
Blank cartridges, 12-pdrs.	50	-	-	-	50	-	-	-	50	50	-	-	-
Blank cartridges, carbines.	5,000	-	-	-	5,000	-	-	-	5,000	5,000	-	-	-
Blank cartridges, Gatlings.	31,161	-	-	-	31,161	13,381	-	13,381	17,780	9,780	8,000	-	-
Canister, 12-pdr. (not fixed).	126	-	-	-	126	-	-	-	126	120	6	-	-
Canister, 12-pdr. (fixed).	24	-	-	-	24	-	-	-	24	24	-	-	-
Canister, 10-pdr.	50	-	-	-	50	-	-	-	50	49	1	-	-
Cannon powder, lbs.	125	2,100	-	-	2,225	2,125	-	2,125	100	100	-	-	-
Carbine cartridges, cal. .45".	1,040	-	-	-	1,040	1,000	-	1,000	40	40	-	-	-
Cartridge flannel, pieces.	64	-	-	-	64	54	-	54	1	1	-	-	-
Friction primers.	1,050	-	2,000	-	3,050	990	-	990	-	2,060	-	-	2,060
Loaded shell, 12-pdrs.	9	-	-	-	9	-	-	-	9	9	-	-	-

TABLE No. 5 — Continued.

ARTICLES.	On Hand Jan. 1, 1893.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Arsenal.	In Possession of Militia.	In Possession of Cities, Towns, etc.	Property of the United States.
Base screws,	256	—	—	5	261	—	—	—	261	261	—	—	62
Butt-plates,	113	—	—	46	159	—	—	—	159	159	—	—	—
Butt-plate screws,	236	—	—	91	327	—	—	—	327	327	—	—	—
Cam-latches,	55	—	—	—	55	38	—	38	17	17	—	—	15
Cam-latch springs,	349	—	—	—	349	49	—	49	300	300	—	—	—
Cam-latch thumb-pieces,	93	—	—	—	93	21	—	21	72	72	—	—	—
Cartridge-box studs,	43	—	—	—	43	—	—	—	43	43	—	—	58
Ejectors,	360	—	100	—	460	261	—	261	199	199	—	—	199
Ejector springs,	598	—	—	—	598	129	—	129	469	469	—	—	168
Ejector-spring spindles,	130	—	—	—	130	52	—	52	78	78	—	—	78
Ejector studs,	11	—	—	—	11	—	—	—	11	11	—	—	—
Firing pins,	115	—	400	—	515	390	—	390	125	125	—	—	125
Firing-pin screws,	360	—	—	—	360	50	—	50	310	310	—	—	—
Front sights,	72	—	100	—	172	129	—	129	43	43	—	—	43
Front-sight covers,	18	—	100	—	368	—	—	—	368	79	279	—	100
Front-sight pins,	—	—	100	240	100	—	—	—	100	100	—	—	—
Guard bows,	17	—	—	—	17	2	—	2	15	15	—	—	—
Guards and triggers,	20	—	—	—	20	1	—	1	19	19	—	—	19
Guard-bow swivels,	113	—	—	—	113	11	—	11	102	102	—	—	102
Guard-bow swivel screws,	73	—	—	38	111	7	—	7	104	104	—	—	73
Guard-bow nuts,	51	—	—	12	63	—	—	—	63	63	—	—	—
Guard-bow screws,	185	—	—	12	197	5	—	5	192	192	—	—	—
Gun stocks,	—	—	60	3	63	53	—	53	10	10	—	—	10

TABLE No. 5 — Continued.

ARTICLES.	On Hand Jan. 1, 1898.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1899.	At State Arsenal.	In Possession of Militia.	In Possession of Cities, Towns, etc.	Property of the United States.
Eye rings,	5	-	-	-	5	-	-	-	5	5	-	-	-
Grease buckets,	1	-	-	-	1	-	-	-	1	1	-	-	-
Hames, chains and toggles,	1	-	-	-	1	-	-	-	1	1	-	-	-
Harness dressing, cans,	-	12	-	-	12	5	-	-	7	7	-	-	-
Keys and chains,	7	-	-	-	7	-	-	-	7	7	-	-	-
Linch-pins,	39	-	-	-	39	-	-	-	39	39	-	-	-
Linch-pin washers,	39	-	-	-	39	-	-	-	39	39	-	-	-
Pole keys,	19	-	-	-	19	-	-	-	19	19	-	-	-
Pole yokes,	6	-	-	-	6	5	-	-	5	4	1	-	-
Pole muffs,	7	-	-	-	7	-	-	-	7	7	-	-	-
Pole pads,	47	-	-	-	47	20	4	24	23	21	28	-	-
Rammer heads,	84	-	-	-	84	18	-	18	21	28	-	-	-
Sponge heads,	31	-	-	-	31	3	-	3	28	5	-	-	-
Sponge and rammer chains,	6	-	-	-	6	-	-	-	6	5	-	-	-
Stay pins,	51	-	-	-	51	-	-	-	51	51	-	-	-
Trail hand sockets,	1	-	-	-	1	-	-	-	1	1	-	-	-
Worms, artillery,	5	-	-	4	9	-	-	-	9	9	-	-	-
Wheel wrenches,	2	-	-	-	2	-	-	-	2	2	-	-	-
<i>Clothing, etc.</i>													
Ambulance corps, crosses,	33	-	-	-	33	6	-	6	28	1	27	-	-
Buttons,	78	2,484	-	7	2,569	729	-	729	1,840	1,840	-	-	-
Blouses,	2,776	-	-	6	2,782	-	63	68	2,719	2,719	-	-	-

TABLE No. 5 — Continued.

ARTICLES.	On Hand Jan. 1, 1888.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Arsenal.	In Possession of Militia.	In Possession of Cities, Towns, etc.	Property of the United States.
Helmet cords,	360	-	-	-	360	108	-	108	252	39	213	-	-
Helmet front pieces,	112	-	-	-	112	83	-	83	29	29	-	-	-
Helmet straps,	-	400	-	-	400	123	-	123	277	277	-	-	-
Letters,	1,484	-	-	-	1,484	64	-	64	1,420	1,420	-	-	-
Leggings,	248	-	-	3	5,101	-	-	-	5,101	227	4,874	-	5,101
Plumes, artillery and cavalry,	627	-	4,850	-	627	18	-	18	609	38	571	-	-
Pea jackets,	221	245	-	-	466	1	-	1	465	-	465	-	-
Rosettes for helmets (top pieces),	648	-	-	-	648	130	-	130	518	518	-	-	-
Service stripes,	82	52	-	-	134	88	-	88	46	46	-	-	-
Sleeve bugles, cloth,	55	-	-	-	55	32	-	32	23	23	-	-	-
Spikes for helmets,	460	-	-	-	460	202	-	202	258	258	-	-	-
Stripes for trousers,	118	179	-	-	297	138	-	138	159	159	-	-	-
Trousers, infantry,	5,302	757	-	42	6,101	-	976	976	5,125	848	4,782	-	-
Trousers, mounted,	655	164	-	-	819	149	-	149	670	64	606	-	-
Trousers (naval battalion),	210	245	-	-	455	3	-	3	452	-	452	-	-
Trousers buttons,	636	-	-	-	636	136	-	136	500	500	-	-	-
White suits (naval battalion),	213	240	-	-	453	1	-	1	454	-	454	-	-
White caps (naval battalion),	212	240	-	-	452	2	-	2	450	-	450	-	-
White jerseys (naval battalion),	194	245	-	-	439	14	-	14	425	-	425	-	-
<i>Tents, etc.</i>													
Acorns,	83	-	-	-	83	-	-	-	83	83	-	-	-
Headquarters' awnings,	3	-	-	-	3	-	-	-	3	3	-	-	-

TABLE No. 5 — Continued.

ARTICLES.	On Hand Jan. 1, 1888.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Arsenal.	In Possession of Militia.	In Possession of Cities, Towns, etc.	Property of the United States.
Record books, . . .	1,078	-	-	-	1,078	251	-	251	827	-	827	-	-
Regulations, M. V. M., . . .	496	-	-	-	496	29	-	29	467	-	467	-	-
Drill Regulations, Infantry, . . .	1,000	-	-	-	1,000	56	-	56	944	212	721	-	-
Drill Regulations, Artillery, . . .	114	-	-	-	114	6	-	6	108	26	82	-	-
Drill Regulations, Cavalry, . . .	50	-	-	-	50	5	-	5	45	-	45	-	-
Wingate's Rifle Practice, . . .	58	-	-	-	58	9	-	9	49	-	49	-	-
Blunt's Manuals, . . .	105	-	-	-	105	2	-	2	103	75	28	-	-
Guard Manuals, . . .	-	1,500	-	-	1,500	111	-	111	1,389	-	1,389	-	-
Military maps, . . .	14	-	-	-	14	-	-	-	14	2	12	-	-
Order files, . . .	178	36	-	8	222	36	-	36	186	-	186	-	-
Tiddballs' H. A. Tactics, . . .	103	-	-	-	103	-	-	-	103	-	103	-	-
Company fund books, . . .	-	100	-	-	100	-	-	-	100	8	92	-	-
<i>Miscellaneous.</i>													
Ash barrels, . . .	51	-	-	-	51	-	-	-	51	51	-	-	-
Axle-grease boxes, . . .	12	-	-	-	12	2	-	2	10	10	-	-	-
Baskets, . . .	69	12	-	-	81	3	-	3	78	78	-	-	-
Batons, drum major's, . . .	5	-	-	-	5	1	-	1	4	-	4	-	-
Bathing tubs, . . .	50	-	-	-	50	1	-	1	49	49	-	-	-
Bedsteads, camp, . . .	50	-	-	-	50	-	-	-	50	50	-	-	-
Blankets, . . .	10	-	-	-	10	-	-	-	10	10	-	-	-
Blankets, red, pairs, . . .	140½	-	-	-	140½	-	-	-	140½	140½	-	-	-
Border cutters, . . .	2	-	-	-	2	-	-	-	2	2	-	-	-

TABLE No. 5—Continued.

ARTICLES.	On Hand Jan. 1, 1894.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Arsenal.	In Possession of Militia.	In Possession of Cities, Towns, etc.	Property of the United States.
Looking-glasses.	8	—	—	—	8	1	—	1	7	7	—	—	—
Marking brushes.	48	—	—	—	48	—	—	—	48	48	—	—	—
Mud brushes.	1	—	—	—	1	—	—	—	1	1	—	—	—
Mattresses.	114	—	—	—	114	—	—	—	114	114	—	—	—
Oil cans.	2	—	—	1	3	—	—	—	3	3	—	—	—
Pick-axes.	75	—	—	—	75	—	—	—	75	65	10	—	—
Pick-axe helms.	11	—	—	—	11	—	—	—	11	11	—	—	—
Pillows.	96	—	—	—	96	—	—	—	96	96	—	—	—
Pillow-cases.	33	—	—	—	33	—	—	—	33	33	—	—	—
Pin jacks.	2	—	—	—	2	—	—	—	2	2	—	—	—
Pipe wrenches.	6	—	—	—	6	—	—	—	6	6	—	—	—
Pumps.	1	—	—	—	1	—	—	—	1	1	—	—	—
Pump-spouts.	15	—	—	—	15	—	—	—	15	15	—	—	—
Platform scales.	1	—	—	—	1	—	—	—	1	1	—	—	—
Rakes.	65	—	—	—	65	—	—	—	65	65	—	—	—
Rakes, wood.	6	—	—	—	6	—	—	—	6	6	—	—	—
Screens, H. Q.	1	—	—	—	1	—	—	—	1	1	—	—	—
Sentry boxes.	5	—	—	—	5	—	—	—	5	5	—	—	—
Settees.	8	—	—	6	14	—	—	—	14	14	—	—	—
Scales, copper.	1	—	—	—	1	—	—	—	1	1	—	—	—
Sheets.	64	—	—	—	64	—	—	—	64	64	—	—	—
Shoopakins.	26	—	—	—	26	—	—	—	22	22	—	—	—
Shovels.	37	—	—	—	37	4	—	4	37	26	12	—	—

TABLE No. 5—Continued.

ARTICLES.	On Hand Jan. 1, 1893.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Arsenal.	In Possession of Militia.	In Possession of Cities, Towns, etc.	Property of the United States.
Sundry shot and shell,	38	-	-	-	38	-	-	-	38	38	-	-	-
Shot gauges, . . .	19	-	-	-	19	-	-	-	19	19	-	-	-
Ship's gun truck,	1	-	-	-	1	-	-	-	1	1	-	-	-
Windsor rifle, . . .	1	-	-	-	1	-	-	-	1	1	-	-	-
Sample rifles, . . .	17	-	-	-	17	-	-	-	17	17	-	-	-
Sample carbines, . . .	4	-	-	-	4	-	-	-	4	4	-	-	-
Sample bayonets, . . .	14	-	-	-	14	-	-	-	14	14	-	-	-
<i>Mortar Implements.</i>													
Baskets for implements, . . .	4	-	-	-	4	-	-	-	4	2	2	-	-
Bed stakes, . . .	24	-	-	-	24	-	-	-	24	24	-	-	-
Budge barrels, . . .	2	-	-	-	2	-	-	-	2	2	-	-	-
Corn brooms, . . .	1	-	-	-	1	-	-	-	1	-	1	-	-
Elevating bars, . . .	6	-	-	-	6	-	-	-	6	4	2	-	-
Fuze mallets, . . .	2	-	-	-	2	1	-	1	1	1	1	-	-
Fuze saws, . . .	3	-	-	-	3	-	-	-	3	2	1	-	-
Fuze setters, . . .	6	-	-	-	6	-	-	-	6	6	4	-	-
Gunner's haversacks, . . .	7	-	-	-	7	1	-	1	6	2	4	-	-
Handspikes, . . .	29	-	-	-	29	4	-	4	25	21	4	-	-
Lanyards, . . .	4	-	-	-	4	1	-	1	3	2	1	-	-
Leather buckets, . . .	1	-	-	-	1	1	-	1	1	-	1	-	-
Mauls, . . .	1	-	-	-	1	-	-	-	1	1	-	-	-

TABLE No. 5. — Continued.

ARTICLES.	On Hand Jan. 1, 1898.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be ac- counted for.	Expended.	Condemned Ar- ticles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Ar- senal.	In Possession of Military.	In Possession of Cities, Towns, etc.	Property of the United States.
Pass boxes,	2	-	-	-	2	-	-	-	2	-	-	-	-
Priming wires,	1	-	-	-	1	-	-	-	1	-	-	-	-
Rammers and staves, 10-in.,	2	-	-	-	2	-	-	-	2	-	-	-	-
Sets floor boards,	2	-	-	-	2	-	-	-	2	-	-	-	-
Shell-hooks, pairs,	2	-	-	-	2	-	-	-	2	-	-	-	-
Sponge buckets,	2	-	-	-	2	-	-	-	2	-	-	-	-
Sponges and staves, 10-in.,	2	-	-	-	2	-	-	-	2	-	-	-	-
Tompson's, 10-in.,	2	-	-	-	2	-	-	-	2	-	-	-	-
Vent covers,	2	-	-	-	2	-	-	-	2	-	-	-	-
Wrenches,	2	-	-	-	2	-	-	-	2	-	-	-	-
Cooking Utensils -- Headquarters.													
Cooking range,	1	-	-	-	1	-	-	-	1	-	-	-	-
Broilers,	1	-	-	-	1	-	-	-	1	-	-	-	-
Ships' boilers,	1	-	-	-	1	-	-	-	1	-	-	-	-
Bakers,	1	-	-	-	1	-	-	-	1	-	-	-	-
Coal hods,	1	-	-	-	1	-	-	-	1	-	-	-	-
Iron pokers,	2	-	-	-	2	-	-	-	2	-	-	-	-
Potato boiler,	1	-	-	-	1	-	-	-	1	-	-	-	-
Meat-pans, square,	6	-	-	-	6	-	-	-	6	-	-	-	-
Meat-pans, long,	4	-	-	-	4	-	-	-	4	-	-	-	-
Thin bread-pans,	4	-	-	-	4	-	-	-	4	-	-	-	-
Thin mixing-pans,	1	-	-	-	1	-	-	-	1	-	-	-	-

TABLE No. 5—Concluded.

ARTICLES.	On Hand Jan. 1, 1898.	Purchased.	Received from United States.	Manufactured and recovered.	Total to be ac- counted for.	Expended.	Condemned Ar- ticles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At State Ar- senal.	In Possession of Militia.	In Possession of Offices, Towns, etc.	Property of the United States.
Hay forks,	4	—	—	—	4	—	—	—	—	4	—	—	—
Hand rollers,	1	—	—	—	1	—	—	—	—	1	—	—	—
Measures ($\frac{1}{4}$ bu.),	1	—	—	—	1	—	—	—	—	1	—	—	—
Measures ($\frac{1}{4}$ pk.),	2	—	—	—	2	—	—	—	—	2	—	—	—
Whips,	1	—	—	—	1	—	—	—	—	1	—	—	—
Clipping machines,	1	—	—	—	1	—	—	—	—	1	—	—	—
Horse rakes,	1	—	—	—	1	—	—	—	—	1	—	—	—
Horse covers, oil,	2	—	—	—	2	—	—	—	—	2	—	—	—
<i>Apparatus for Water Supply.</i>													
Tubular boilers (15 horse-power),	1	—	—	—	1	—	—	—	—	1	—	—	—
Steam pumps,	1	—	—	—	1	—	—	—	—	1	—	—	—
Chapman valves,	6	—	—	—	6	—	—	—	—	6	—	—	—
Fire hydrant,	1	—	—	—	1	—	—	—	—	1	—	—	—
Morgan gate boxes,	17	—	—	—	17	—	—	—	—	17	—	—	—
Self-closing faucets,	103	—	—	—	103	—	—	—	—	103	—	—	—
Water gauge,	1	—	—	—	1	—	—	—	—	1	—	—	—
Automatic regulator,	1	—	—	—	1	—	—	—	—	1	—	—	—
Copper sand box,	1	—	—	—	1	—	—	—	—	1	—	—	—
Steam gauge,	1	—	—	—	1	—	—	—	—	1	—	—	—
Tank (1,500 gallons),	1	—	—	—	1	—	—	—	—	1	—	—	—
Water barrels,	8	—	—	—	8	—	—	—	—	8	—	—	—

TABLE No. 6. — *Property at State Armories.*

ARTICLES.	On Hand Jan. 1, 1898.	Purchased.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1898.	At South Armory.	At East Armory.	At Lowell Armory.	At Worcester Armory.	At Fitchburg Armory.	At Lawrence Armory.
Army record and frame,	1	—	—	1	—	—	—	1	1	7	6	—	—	—
Ash barrels, . . .	20	—	—	20	—	—	—	20	1	1	—	—	—	—
Axes, . . .	3	—	—	3	—	—	—	3	—	—	—	—	—	—
Bailey planes, . . .	1	—	—	1	—	—	—	1	—	—	—	—	—	—
Barrows, tubular, . . .	1	—	—	1	—	—	—	1	—	—	—	—	—	—
" wheel, . . .	2	2	—	4	—	—	—	4	—	—	—	—	—	—
Baskets, . . .	6	2	—	8	2	—	2	6	—	—	—	—	—	—
Bookcases, . . .	4	—	—	4	—	—	—	4	—	—	—	—	—	—
Books, blank, . . .	3	—	—	3	1	—	1	2	2	2	—	—	—	—
" property, . . .	—	2	—	2	2	—	2	—	—	—	—	—	—	—
" receipt, . . .	3	—	—	3	1	—	1	2	2	2	—	—	—	—
" record, . . .	6	—	—	6	—	—	—	6	—	—	—	—	—	—
Boiler glasses, . . .	1	2	—	3	—	—	—	3	—	—	—	—	—	—
Brands, . . .	1	1	—	2	—	—	—	2	—	—	—	—	—	—
Brooms, corn, . . .	22	—	—	22	10	—	10	12	—	—	—	—	—	—
" floor, . . .	29	10	—	39	8	—	8	31	—	—	—	—	—	—
Brushes, dust, . . .	5	1	6	12	—	—	—	12	1	1	—	—	—	—
" floor, . . .	18	14	—	32	10	—	10	22	—	—	—	—	—	—
" floor, 36-in., . . .	11	6	—	17	—	—	—	17	12	6	—	—	—	—
" furniture, . . .	1	—	—	1	—	—	—	1	—	—	—	—	—	—
" scrub, . . .	6	—	—	6	4	—	4	2	—	—	—	—	—	—
" window, . . .	3	4	—	7	—	—	—	7	1	1	—	—	—	—
Bulletin boards, . . .	7	1	—	8	—	—	—	8	9	1	4	—	—	—

TABLE No. 6 — Continued.

ARTICLES.	On Hand Jan. 1, 1888.	Purchased.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1889.	At South Army.	At East Army.	At Lowell Army.	At Worcester Army.	At Fitchburg Army.	At Lawrence Army.
Handles, mop,	31	18	-	49	18	-	18	31	6	2	11	6	-	6
" " window brush,	2	-	-	2	-	-	-	2	1	1	-	-	-	-
" 36-in. floor brushes,	17	-	-	17	-	-	-	17	12	6	-	-	-	-
Halyards,	4	3	-	7	1	-	1	6	1	1	1	1	1	1
Hammers,	3	-	-	3	-	-	-	3	1	1	-	-	-	-
Hampers,	1	2	-	3	-	-	-	3	2	1	-	-	-	-
Harness trucks,	-	6	-	6	-	-	-	6	2	1	-	-	-	-
Hatchets,	1	1	-	2	-	-	-	2	-	-	-	-	-	-
Hoes,	1	-	-	1	-	-	-	1	-	-	-	-	-	-
Hose,	6	1	-	7	-	-	-	7	2	1	1	1	1	1
Hose, feet,	400	260	-	650	100	-	100	550	150	200	-	100	50	50
Hose reels,	1	1	-	2	-	-	-	2	-	1	-	1	-	-
Iron shaker,	1	1	-	2	-	-	-	2	-	1	-	1	-	-
Key boards,	2	-	-	2	-	-	-	2	1	62	-	50	-	-
Key tags,	211	-	-	211	-	-	-	211	99	-	-	-	-	-
Linoleum, yards,	58	-	-	58	-	-	-	58	-	-	-	-	58	-
Ladders,	4	-	-	4	-	-	-	4	2	1	-	1	-	-
Ladders, step,	8	7	-	15	-	-	-	15	2	2	3	1	3	3
Lanterns,	10	-	-	10	-	-	-	10	3	2	3	2	3	-
Letter boxes,	46	4	-	50	-	-	-	50	24	16	5	1	-	4
Lawn mowers,	1	-	-	1	-	-	-	1	-	-	-	-	-	-
Library stamps,	1	-	-	1	-	-	-	1	1	-	-	-	-	-
Lighters,	4	2	-	6	-	-	-	6	-	-	1	-	-	2
Lockers,	1,337	-	-	1,337	-	-	-	1,337	717	643	77	-	-	-

Lockers, officers', . . .	119	58	177	153 $\frac{1}{2}$	153 $\frac{1}{2}$	153 $\frac{1}{2}$	177	79	40	2	89 $\frac{1}{2}$	27 $\frac{1}{2}$	58
Mats, floor, . . .	4	1	6	—	—	—	6	1	—	—	2	—	—
Mats, rope, . . .	2	—	2	—	—	—	2	—	1	—	1	3	1
" rubber, . . .	8	—	8	—	—	—	8	3	1	—	1	1	—
" wire, . . .	1	1	2	—	—	—	2	—	—	—	—	—	—
Mating yards, . . .	408 $\frac{1}{2}$	—	408 $\frac{1}{2}$	153 $\frac{1}{2}$	153 $\frac{1}{2}$	153 $\frac{1}{2}$	254 $\frac{1}{2}$	—	187 $\frac{1}{2}$	—	1	27 $\frac{1}{2}$	—
Mirrors, . . .	1	—	1	—	—	—	1	—	—	—	—	—	—
Monkey wrenches, . . .	2	—	2	—	—	—	2	1	—	—	1	—	—
Mops, . . .	23	36	59	30	30	30	29	7	5	5	1	6	6
Nozzles, . . .	3	—	5	1	1	1	4	—	1	—	1	1	2
Oak chests, . . .	—	2	2	—	—	—	2	—	2	—	1	2	—
Oil cans, . . .	7	—	7	—	—	—	7	2	—	—	3	—	—
Padlocks, . . .	3	—	3	—	—	—	3	—	—	5	6	—	6
Pails, water, . . .	38	6	44	—	—	—	44	10	11	—	6	—	—
Pails, garbage, . . .	1	—	1	—	—	—	1	—	—	—	1	—	—
Pictures, . . .	3	1	4	—	—	—	4	1	1	—	3	—	1
Pokers, . . .	3	—	4	—	—	—	4	—	1	—	1	—	—
Pliers, . . .	2	—	2	—	—	—	2	1	1	—	1	—	—
Prentiss vises, . . .	1	—	1	—	—	—	1	—	—	—	1	—	—
Pulley blocks, pairs, . . .	1	—	1	—	—	—	1	—	—	—	1	—	—
Putty knives, . . .	2	—	2	—	—	—	2	—	1	—	1	—	—
Racket braces, . . .	1	—	1	—	—	—	1	—	1	—	1	—	—
Rakes, . . .	3	—	3	—	—	—	3	—	1	—	2	—	—
Rubber stamps, . . .	1	—	1	—	—	—	1	—	1	—	—	—	—
Rulers, . . .	3	—	3	—	—	—	3	1	2	—	1	—	1
Sofas, . . .	1	1	1	—	—	—	1	—	—	—	—	—	—
Sash pulls, . . .	1	—	1	—	—	—	1	—	—	—	—	—	—
Saws, . . .	3	1	3	—	—	—	3	1	—	—	1	—	—
Scoops, . . .	2	—	2	—	—	—	2	2	—	—	—	—	—
Screwdrivers, . . .	4	—	4	—	—	—	4	1	2	—	1	—	—

TABLE No. 6 — Continued.

ARTICLES.	On Hand Jan. 1, 1898.	Purchased.	Manufactured and recovered.	Total to be accounted for.	Expended.	Condemned Articles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At South Armory.	At East Armory.	At Lowell Armory.	At Worcester Armory.	At Fitchburg Armory.	At Lawrence Armory.
Handles, mop, . . .	31	18	-	49	18	-	18	31	6	2	11	6	-	6
" " window brush, . . .	2	-	-	2	-	-	-	2	1	1	-	-	-	-
" " 36-in. floor brushes, . . .	17	-	-	17	-	-	-	17	12	5	-	-	-	-
Halyards, . . .	4	3	-	7	1	-	1	6	1	1	1	1	1	1
Hammers, . . .	3	-	-	3	-	-	-	3	1	1	-	-	-	-
Hamper, . . .	1	2	-	3	-	-	-	3	2	1	-	-	-	-
Harness trucks, . . .	-	6	-	6	-	-	-	6	-	1	-	-	-	-
Hatchets, . . .	1	-	-	1	-	-	-	1	-	-	-	-	-	-
Hoes, . . .	6	1	-	7	-	-	-	7	2	1	1	1	1	1
Hose, feet, . . .	400	250	-	650	100	-	100	550	150	200	-	100	50	50
Hose reels, . . .	1	1	-	2	-	-	-	2	-	1	-	1	-	-
Iron shaker, . . .	1	1	-	2	-	-	-	2	-	1	-	-	-	-
Key boards, . . .	2	-	-	2	-	-	-	2	1	1	-	50	-	-
Key tags, . . .	211	-	-	211	-	-	-	211	99	62	-	-	-	-
Linoleum, yards, . . .	58	-	-	58	-	-	-	58	-	-	-	-	58	-
Ladders, . . .	4	-	-	4	-	-	-	4	2	1	-	1	-	-
Ladders, step, . . .	8	7	-	15	-	-	-	15	2	2	3	2	3	3
Lanterns, . . .	10	-	-	10	-	-	-	10	3	2	-	2	2	2
Letter boxes, . . .	46	4	-	50	-	-	-	50	24	16	6	1	1	4
Lawn mowers, . . .	1	-	-	1	-	-	-	1	1	-	-	-	-	-
Library stamps, . . .	1	-	-	1	-	-	-	1	-	-	-	-	-	-
Lighters, . . .	1	-	-	1	-	-	-	1	1	-	-	-	-	-
Lockers, . . .	4	2	-	6	-	-	-	6	1	3	1	-	-	2
	1,337	-	-	1,337	-	-	-	1,337	717	513	77	-	-	-

Lockers, officers', . . .	119	58	177	153 $\frac{3}{4}$	153 $\frac{3}{4}$	153 $\frac{3}{4}$	177	79	40	2	89 $\frac{1}{2}$	27 $\frac{1}{2}$	58
Mats, door, . . .	4	1	5	-	-	-	5	1	-	-	2	-	1
Mats, rope, . . .	2	2	2	-	-	-	2	3	1	-	1	3	1
" rubber, . . .	8	-	8	-	-	-	8	-	1	-	-	1	-
" wire, . . .	1	1	2	-	-	-	2	-	-	-	-	-	-
Mating yards, . . .	408 $\frac{1}{4}$	-	408 $\frac{1}{4}$	153 $\frac{3}{4}$	153 $\frac{3}{4}$	153 $\frac{3}{4}$	254 $\frac{1}{2}$	-	187 $\frac{1}{2}$	-	1	27 $\frac{1}{2}$	-
Mirrors, . . .	1	-	1	-	-	-	1	-	-	-	-	-	-
Monkey wrenches, . . .	2	-	2	-	-	-	2	1	1	-	-	-	6
Mops, . . .	28	36	59	30	30	30	29	7	5	5	-	6	1
Nozzles, . . .	3	2	5	1	1	1	4	-	1	-	1	1	2
Oak chests, . . .	7	2	2	-	-	-	2	-	2	-	1	2	-
Oil cans, . . .	7	-	7	-	-	-	7	2	-	-	-	-	-
Padlocks, . . .	3	-	3	-	-	-	3	-	-	-	3	-	6
Pails, water, . . .	38	6	44	-	-	-	44	10	11	5	6	6	-
Pails, garbage, . . .	1	-	1	-	-	-	1	-	-	-	-	-	-
Pictures, . . .	3	1	4	-	-	-	4	1	1	-	1	1	1
Pokers, . . .	3	-	4	-	-	-	4	-	-	-	-	-	-
Pliers, . . .	2	-	2	-	-	-	2	1	1	-	1	-	-
Prentiss vises, . . .	1	-	1	-	-	-	1	-	-	-	-	-	-
Pulley blocks, pairs, . . .	1	-	1	-	-	-	1	-	-	-	-	-	-
Putty knives, . . .	2	-	2	-	-	-	2	-	1	-	1	-	-
Racket braces, . . .	1	-	1	-	-	-	1	-	-	-	-	-	-
Rakes, . . .	3	-	3	-	-	-	3	-	1	-	1	-	-
Rubber stamps, . . .	1	-	1	-	-	-	1	-	1	-	2	-	-
Rulers, . . .	3	-	3	-	-	-	3	1	1	-	-	-	1
Sofas, . . .	1	-	1	-	-	-	1	-	-	-	-	-	-
Sash pulls, . . .	1	1	1	-	-	-	1	-	-	-	-	-	-
Saws, . . .	3	1	3	-	-	-	3	1	1	-	1	-	-
Scoops, . . .	2	-	2	-	-	-	2	2	-	-	-	-	-
Screwdrivers, . . .	4	-	4	-	-	-	4	1	2	-	1	-	-

TABLE No. 6.—Concluded.

ARTICLES.	On Hand Jan. 1, 1893.	Purchased.	Manufactured and recovered.	Total to be ac- counted for.	Expended.	Condemned Ar- ticles sold.	Total disposed of.	Remaining on Hand Jan. 1, 1894.	At South Armory.	At East Armory.	At Lowell Armory.	At Worcester Armory.	At Fitchburg Armory.	At Lawrence Armory.
Settees, feet, .	3,224	348	-	3,572	-	-	-	3,572	1,172	1,147	473	96	336	348
Sheep shears, .	1	-	-	1	-	-	-	1	-	-	-	1	1	-
Shipman's files, .	7	1	-	8	-	-	-	8	2	2	1	1	1	1
Shovels, .	2	1	-	3	-	-	-	3	-	1	1	1	1	1
“ coal, .	4	-	-	4	-	-	-	4	-	1	-	1	1	-
“ snow, .	13	1	-	14	-	-	-	14	4	3	-	6	1	1
Slice bar, .	3	1	-	4	5	-	5	4	3	2	-	1	1	1
Sponges, .	8	6	-	14	-	-	-	9	-	2	-	1	4	-
Steps, .	3	-	-	3	-	-	-	3	2	2	-	1	1	1
Shaking levers, .	4	-	-	4	-	-	-	4	2	2	-	1	1	-
Tables, .	10	-	-	10	-	-	-	10	3	3	2	1	1	-
Tags, .	99	-	-	99	-	-	-	99	99	-	-	-	-	-
Towels, .	-	6	-	6	-	-	-	6	-	-	-	6	-	-
Towel racks, .	1	-	-	1	-	-	-	1	-	-	-	1	-	-
Tube scrapers, .	4	-	-	4	-	-	-	4	-	1	-	1	-	-
Trucks, .	1	-	-	1	-	-	-	1	-	1	-	1	-	-
Tackle, .	2	-	-	2	-	-	-	2	-	1	-	1	-	-
Wardrobes, .	10	-	-	10	-	-	-	10	1	1	8	-	-	-
Wrenches, Coe's black, .	2	-	-	2	-	-	-	2	-	1	-	2	-	-
“ Stillson, .	3	-	-	3	-	-	-	3	1	1	-	1	-	-

CASUALTIES.

NAME AND RANK.	Residence.	Co.	Organisation.	Date of Commission.	Date of Discharge.	Remarks.
<i>Colonel, Assistant Quartermaster General.</i> Jeremiah W. Coveney,	Cambridge, .	Staff,	Commander-in-Chief, .	Jan. 8, 1891,	May 25, 1893,	Resigned.
<i>Colonel.</i> J. Albert Milla,	Newburyport, .	-	8th Regiment, . .	June 10, 1890,	June 20, 1893,	Dismissed.
<i>Major.</i> William W. Kallett,	Boston, . .	-	1st Regiment, . .	Dec. 10, 1888,	April 10, 1893,	Died.
George A. Copeland,	Revere, . .	-	8th Regiment, . .	June 16, 1894,	June 20, 1893,	Special Order No. 73.
George S. Merrill,	Lawrence, . .	-	1st Battalion Artillery,	Aug. 11, 1873,	May 9, 1893,	Resigned.
<i>Assistant Inspector General Rifle Practice</i> <i>(Major).</i> James P. Frost,	Boston, . .	Staff,	2d Brigade, . . .	July 14, 1887,	Jan. 6, 1893,	Died.
<i>Surgeon Major.</i> Frank M. Johnson,	Boston, . .	Staff,	1st Battalion Artillery,	July 17, 1889,	May 26, 1893,	Resigned.
Harry M. Cutts,	Brookline, . .	Staff,	Naval Brigade, . .	Mar. 22, 1893,	Nov. 7, 1893,	Resigned.
<i>Surgeon (Lieutenant Junior Grade).</i> James G. Mumford,	Boston, . .	Staff,	Naval Battalion, . .	Sept. 20, 1892,	Jan. 11, 1893,	Resigned.
<i>Asst. Surgeon (Lieutenant Junior Grade).</i> Gardner W. Allen,	Boston, . .	Staff,	Naval Battalion, . .	Mar. 22, 1893,	Nov. 7, 1893,	Resigned.
<i>Adjutant (Lieutenant).</i> Franklin D. Williams,	Brookline, . .	Staff,	Naval Brigade, . .	Mar. 22, 1893,	Nov. 1, 1893,	Resigned.

Casualties — Continued.

NAME AND RANK.	Residence.	Co.	Organization.	Date of Commission.	Date of Discharge.	Remarks.
<i>Quartermaster (Captain).</i>						
Harry E. Converse,	Malden, . .	Staff,	2d Brigade, . .	April 21, 1888,	Mar. 30, 1893,	Resigned.
<i>Provost Marshal (Captain).</i>						
George A. Pierce,	Newton, . .	Staff,	2d Brigade, . .	April 13, 1891,	Jan. 20, 1893,	Died.
<i>Quartermaster (1st Lieutenant).</i>						
Norman Y. Brintnall,	Boston, . .	Staff,	8th Regiment, . .	June 17, 1891,	Nov. 14, 1893,	Resigned.
Charles Kenney,	Boston, . .	Staff,	1st Battalion Artillery,	Feb. 6, 1890,	May 24, 1893,	Successor appointed.
<i>Paymaster (1st Lieutenant).</i>						
Henry Hastings,	Medford, . .	Staff,	1st Battalion Artillery,	Feb. 6, 1890,	May 24, 1893,	Successor appointed.
<i>Inspector Rifle Practice (1st Lieutenant).</i>						
John Bellamy,	Newton, . .	Staff,	1st Battalion Cavalry, .	July 14, 1887,	June 26, 1893,	Resigned.
<i>Captains.</i>						
Richard W. Sutton,	Cambridge, .	B,	5th Regiment, . .	Dec. 2, 1889,	June 28, 1893,	General Order No. 10.
Marcus L. Dillaber,	Southbridge, .	K,	6th Regiment, . .	Mar. 6, 1891,	Feb. 18, 1893,	Resigned.
George E. Lull,	Lowell, . .	C,	6th Regiment, . .	Aug. 26, 1891,	Sept. 23, 1893,	Resigned.
John T. Berrill,	Millford, . .	M,	6th Regiment, . .	Oct. 26, 1891,	April 14, 1893,	Resigned.
Benjamin H. Jellison,	Haverhill, . .	F,	8th Regiment, . .	Jan. 18, 1894,	Feb. 6, 1893,	General Order No. 4.
Andrew Reeves,	No. Andover, .	L,	8th Regiment, . .	April 2, 1888,	Mar. 1, 1893,	Resigned.
William B. Potter,	Marblehead, .	C,	8th Regiment, . .	Aug. 30, 1889,	June 21, 1893,	Resigned.

Lucius H. Perry,	Beverly,	E,	8th Regiment,	Mar. 18, 1892,	Mar. 29, 1893,	Resigned.
Alexander A. Kane,	Natick,	L,	9th Regiment,	May 5, 1890,	Nov. 11, 1893,	Resigned.
Patrick T. Sullivan,	Boston,	C,	9th Regiment,	May 12, 1890,	Mar. 10, 1893,	Resigned.
Timothy E. McCarthy,	Boston,	C,	9th Regiment,	May 4, 1892,	May 31, 1893,	Rejected.
William H. Hosmer,	Lowell,	D,	2d Corps Cadets,	May 1, 1891,	Nov. 7, 1893,	Resigned.
Addison D. Nichols,	Boston,	A,	1st Battalion Cavalry,	Jan. 27, 1891,	Feb. 3, 1893,	Resigned.
Charles W. Osgood,	Salem,	C,	2d Corps Cadets,	July 20, 1888,	Dec. 31, 1893,	Resigned.
<i>First Lieutenants.</i>						
Harry G. Winsor,	Brockton,	I,	1st Regiment,	April 6, 1891,	Nov. 11, 1893,	Resigned.
Paul R. Hawkins,	Springfield,	B,	2d Regiment,	Sept. 8, 1890,	Dec. 15, 1893,	Resigned.
Herbert M. Gragg,	Waltham,	F,	5th Regiment,	Jan. 12, 1891,	April 12, 1893,	Resigned.
Walter H. Small,	Hudson,	M,	5th Regiment,	May 12, 1891,	May 9, 1893,	Resigned.
William C. Twombly,	Waltham,	F,	5th Regiment,	May 8, 1893,	June 22, 1893,	Resigned.
Frank H. Wood,	Hudson,	M,	5th Regiment,	June 30, 1893,	Sept. 20, 1893,	Resigned.
Walter L. Tougas,	Millford,	M,	6th Regiment,	Oct. 26, 1891,	May 17, 1893,	Resigned.
Arthur I. Hunting,	So. Framingham,	E,	6th Regiment,	Oct. 30, 1893,	Nov. 22, 1893,	Rejected.
Charles S. Pope,	Salem,	H,	8th Regiment,	June 3, 1886,	Mar. 29, 1893,	Resigned.
Arthur M. Whitten,	Somerville,	M,	8th Regiment,	Oct. 12, 1891,	Nov. 2, 1893,	Resigned.
William E. Connor,	Amesbury,	B,	8th Regiment,	April 11, 1892,	April 10, 1893,	Resigned.
Patrick A. Fitzgerald,	Salem,	H,	8th Regiment,	April 17, 1893,	May 27, 1893,	Failed to qualify.

Casualties — Concluded.

NAME AND RANK.	Residence.	Co.	Organization.	Date of Commission.	Date of Discharge.	Remarks.
Bernard J. Wilnot,	Worcester, .	G,	9th Regiment, .	May 10, 1887,	Mar. 6, 1893,	Resigned.
Charles M. Hunter,	Natick, .	L,	9th Regiment, .	May 9, 1892,	Sept. 20, 1893,	Resigned.
William B. Nichols,	Allston, .	D,	2d Corps Cadets, .	June 22, 1891,	April 13, 1893,	Resigned.
Henry G. Hall,	Salem, .	D,	Naval Brigade, .	Mar. 25, 1890,	Dec. 29, 1893,	Resigned.
Frank N. Brown,	Newtonville, .	B,	Naval Brigade, .	May 4, 1891,	April 24, 1893,	Resigned.
Joseph Battles,	Lawrence, .	H,	Naval Brigade, .	Dec. 13, 1892,	Oct. 27, 1893,	Resigned.
<i>Second Lieutenant.</i>						
Reed L. Elliott,	Cambridge, .	L,	1st Regiment, .	Sept. 2, 1891,	June 22, 1893,	Resigned.
Frank A. Bardwell,	Amherst, .	K,	2d Regiment, .	May 2, 1889,	Mar. 15, 1893,	Resigned.
Joseph B. Farley,	Orange, .	E,	2d Regiment, .	April 3, 1890,	Mar. 18, 1893,	Resigned.
Edward A. Moore,	Boston, .	A,	5th Regiment, .	Nov. 17, 1890,	June 11, 1893,	Died.
Pliny E. Graves,	Hudson, .	M,	5th Regiment, .	Nov. 18, 1890,	June 20, 1893,	Resigned.
George F. Millett,	Waltham, .	F,	5th Regiment, .	Oct. 19, 1891,	April 24, 1893,	Resigned.
Thomas F. English,	Marlborough, .	F,	6th Regiment, .	Jan. 19, 1893,	Jan. 25, 1893,	Rejected.
William A. Brown,	So. Framingham, .	E,	6th Regiment, .	Jan. 23, 1893,	Nov. 1, 1893,	Resigned.
Otis S. Vaughn,	Marlborough, .	F,	6th Regiment, .	Dec. 18, 1893,	Dec. 20, 1893,	Rejected.
Winfield S. Dennison,	Gloucester, .	G,	8th Regiment, .	Jan. 16, 1891,	Feb. 6, 1893,	General Order No. 6.

William McKay,	.	.	.	.	.	.	.	.	.	Haverhill,	.	F,	8th Regiment,	.	.	Mar. 14, 1893,	April 26, 1893,	Failed to qualify.
Edward F. Gibbs,	.	.	.	.	.	.	.	.	.	Gloucester,	.	G,	8th Regiment,	.	.	April 11, 1893,	April 26, 1893,	Rejected.
Henry R. Nelson,	.	.	.	.	.	.	.	.	.	Salem,	.	H,	8th Regiment,	.	.	April 17, 1893,	May 27, 1893,	Failed to qualify.
Benjamin Mitchell,	.	.	.	.	.	.	.	.	.	Marblehead,	.	C,	8th Regiment,	.	.	July 3, 1893,	July 12, 1893,	Rejected.
Joseph P. Bessom,	.	.	.	.	.	.	.	.	.	Marblehead,	.	C,	8th Regiment,	.	.	July 19, 1893,	Aug. 24, 1893,	Rejected.
Michael J. Sullivan,	.	.	.	.	.	.	.	.	.	Worcester,	.	G,	9th Regiment,	.	.	May 10, 1897,	July 7, 1893,	Resigned.
Richard H. Foley,	.	.	.	.	.	.	.	.	.	Boston,	.	E,	9th Regiment,	.	.	Oct. 28, 1888,	Dec. 22, 1893,	General Order No. 16.
William J. Mildrum,	.	.	.	.	.	.	.	.	.	East Boston,	.	H,	9th Regiment,	.	.	Feb. 11, 1890,	Nov. 28, 1893,	Resigned.
John J. Maguire,	.	.	.	.	.	.	.	.	.	Boston,	.	C,	9th Regiment,	.	.	June 15, 1891,	April 20, 1893,	Resigned.
Charles O'Connell,	.	.	.	.	.	.	.	.	.	Lowell,	.	M,	9th Regiment,	.	.	July 9, 1891,	Feb. 24, 1893,	Resigned.
John J. Grogan,	.	.	.	.	.	.	.	.	.	Boston,	.	C,	9th Regiment,	.	.	May 4, 1893,	May 31, 1893,	Rejected.
George D. Kelley,	.	.	.	.	.	.	.	.	.	Worcester,	.	B,	1st Batt'n Artillery,	.	.	April 1, 1892,	Jan. 28, 1893,	Resigned.
Frank Foster Tripp,	.	.	.	.	.	.	.	.	.	Roxbury,	.	B,	Naval Brigade,	.	.	May 4, 1891,	Jan. 24, 1893,	Resigned.
Charles E. Brownell,	.	.	.	.	.	.	.	.	.	New Bedford,	.	G,	Naval Brigade,	.	.	Nov. 28, 1892,	Mar. 29, 1893,	Resigned.
William N. Dudley,	.	.	.	.	.	.	.	.	.	Boston,	.	C,	Naval Brigade,	.	.	Mar. 28, 1893,	July 7, 1893,	Resigned.

Retirements.

NAME AND RANK.	Residence.	Co.	Organization.	Date of Commission.	Date of Retirement.	Remarks.
<i>Lieutenant Colonel.</i> Frederick W. Merriam,	North Adams, .	-	2d Regiment, . .	Feb. 2, 1889,	Oct. 6, 1893,	Rank, Colonel.
<i>Captain.</i> Horace W. Wilson,	Carlisle, . .	F,	Cavalry, . .	Dec. 21, 1888,	Sept. 1, 1893,	Rank, Captain.
<i>Paymaster (1st Lieutenant).</i> John G. Warner,	Lynn, . .	-	8th Regiment, . .	July 28, 1879,	Nov. 9, 1893,	Rank, Captain.

Summary of Casualties.

	Retired.	Resigned.	Failed to pass Examination.	Failed to qualify.	Dismissed.	Discharged by Order.	Died.	Successor appointed.	Total.
Colonel, . . .	-	-	-	-	1	-	-	-	1
Lieut. Colonel, . .	1	-	-	-	-	-	-	-	1
Majors, . . .	-	1	-	-	-	1	18	-	3
Captains, . . .	1	11	1	-	-	2	-	-	15
First Lieutenants, .	-	16	1	1	-	-	-	-	18
Second Lieutenants, .	-	14	6	2	-	2	1	-	25
Staff Officers, . .	1	9	-	-	-	-	2	2	14
	3	51	8	3	1	5	4	2	77

Commissions Vacant Dec. 31, 1893.

	Major.	Surgeon.	Assistant Surgeon.	Adjutant.	Chaplain.	Captain.	1st Lieutenant.	2d Lieutenant.	Lieut. Junior Grade.	Ensign.	Total.
Second Brigade, . .	1	-	-	-	-	-	-	-	-	-	1
First Regiment, . .	-	-	-	-	-	-	-	2	-	-	2
Second Regiment, .	-	-	-	-	-	-	1	-	-	-	1
Sixth Regiment, . .	-	-	-	-	-	-	-	1	-	-	1
Eighth Regiment, .	-	1	1	-	-	-	1	1	-	-	4
Ninth Regiment, . .	-	-	-	-	-	-	-	2	-	-	2
First Corps Cadets, .	-	-	-	-	1	-	-	-	-	-	1
Second Corps Cadets, .	-	-	-	-	-	2	-	-	-	-	2
First Battalion Artillery, .	-	-	-	-	1	-	-	-	-	-	1
Naval Brigade, . .	-	-	-	-	-	-	-	-	1	1	2
	1	1	1	-	2	2	2	6	1	1	17

*Discharges and Loss of Enlisted Men other than by Expiration
of Term of Service.*

ORGANIZATION.	Company.	By Order.	Promotion.	Died.
First Brigade, N. C. S.,	-	1	-	-
First Brigade, Signal Corps, . .	-	12	-	-
First Brigade, Ambulance Corps, .	-	3	-	-
		16	-	-
Second Brigade, N. C. S.,	-	-	3	-
Second Brigade, Signal Corps, . .	-	10	-	-
Second Brigade, Ambulance Corps, .	-	4	-	-
		14	3	-
First Regiment Infantry, Head- quarters,	-	6	-	1
	A,	30	-	-
	B,	33	-	-
	C,	31	-	-
	D,	16	-	-
	E,	21	-	-
	F,	12	1	-
	G,	28	-	-
	H,	19	-	-
	I,	11	-	-
	K,	35	-	-
	L,	21	-	-
	M,	8	-	-
		271	1	1
Second Regiment Infantry, Head- quarters,	-	10	-	-
	A,	16	-	-
	B,	17	-	1
	C,	2	-	1
	D,	10	-	1
	E,	18	1	-
	F,	3	-	-
	G,	19	-	-
	H,	8	-	1
	I,	27	1	-
	K,	12	-	-
	L,	12	-	-
	M,	4	2	-
		158	4	4

Discharges and Loss of Enlisted Men, etc. — Continued.

ORGANIZATION.	Company.	By Order.	Promotion.	Died.
Fifth Regiment Infantry, Headquarters,	-	11	-	-
	A,	25	-	-
	B,	21	1	-
	C,	19	1	-
	D,	23	-	-
	E,	18	1	-
	F,	19	3	-
	G,	6	1	-
	H,	24	2	1
	I,	13	-	-
	K,	18	-	-
	L,	11	-	-
	M,	6	2	-
		214	11	1
Sixth Regiment Infantry, Headquarters,	-	20	1	-
	A,	33	1	-
	B,	14	-	-
	C,	14	1	-
	D,	16	1	-
	E,	9	3	-
	F,	16	2	-
	G,	15	-	-
	H,	5	-	-
	I,	9	-	-
	K,	7	1	-
	L,	6	-	-
	M,	23	-	-
		187	10	1
Eighth Regiment Infantry, Headquarters,	-	8	2	-
	A,	22	-	-
	B,	17	-	1
	C,	8	1	1
	D,	6	-	-
	E,	22	1	-
	F,	20	2	-
	G,	16	2	-
	H,	6	-	-
	I,	16	1	-
	K,	10	-	-
	L,	15	-	-
	M,	18	1	-
		185	10	2

Discharges and Loss of Enlisted Men, etc. — Concluded.

ORGANIZATION.	Company.	By Order.	Promotion.	Died.
Ninth Regiment Infantry, Headquarters,	-	1	-	-
	A,	22	1	-
	B,	12	-	-
	C,	25	-	1
	D,	15	-	1
	E,	13	-	-
	F,	11	-	-
	G,	9	1	-
	H,	16	-	-
	I,	13	-	-
	K,	13	-	-
	L,	6	2	-
	M,	17	1	-
		173	5	2
First Corps Cadets,	-	16	5	1
Second Corps Cadets,	-	26	5	1
Naval Brigade, Headquarters, .	-	3	2	-
	A,	10	3	-
	B,	8	2	1
	C,	15	3	-
	D,	12	2	-
	E,	16	2	-
	F,	7	-	-
	G,	19	3	-
	H,	16	-	-
		106	17	1
First Battalion Artillery, Headquarters,	-	3	1	-
Battery,	B,	25	-	-
	C,	19	1	-
		47	2	-
Battery A, Light Artillery, . . .	-	33	-	-
First Battalion Cavalry, Headquarters,	-	-	1	-
First Battalion Cavalry (Troop), .	A,	9	1	-
First Battalion Cavalry (Troop), .	D,	24	1	-
		33	3	-
Troop F, Cavalry,	-	21	-	-

Summary.

ORGANIZATION.	Company.	By Order.	Promotion.	Died.
First Brigade,	—	16	—	—
Second Brigade,	—	14	3	—
First Regiment Infantry, . .	—	271	1	1
Second Regiment Infantry, . .	—	158	4	4
Fifth Regiment Infantry, . .	—	214	11	1
Sixth Regiment Infantry, . .	—	187	10	1
Eighth Regiment Infantry, . .	—	185	10	2
Ninth Regiment Infantry, . .	—	173	5	2
First Corps Cadets,	—	16	5	1
Second Corps Cadets,	—	26	5	1
Naval Brigade,	—	106	17	1
First Battalion Cavalry, . .	—	33	3	—
Troop F, Cavalry,	—	21	—	—
First Battalion Light Artillery, .	—	47	2	—
Battery A, Light Artillery, . .	—	33	—	—
	—	1,500	76	14

REGISTER.

REGISTER.

More than one term as an enlisted man is denoted 2d, 3d, etc.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Governor and Commander-in-Chief.</i> William Eustis Russell, Cambridge, Jan. 8, 1891.	1st corps cadets, 15 June, 1877, to 15 June, 1880.	. . . . .	Cambridge.	

GOVERNOR'S STAFF.

<i>Adjutant General.</i> Samuel Dalton, Boston, Maj. Gen., Jan. 8, 1884.	2d corps cadets, priv., 1853 to 1861; capt., 6 April, 1866; maj., 3 April, 1874; dis., 28 April, 1876; re-elected, 2 May, 1876; lt. col., 14 March, 1877; col. and ins. ord., staff com.-in-chief, 10 Dec., 1881; res., 8 Jan., 1883; brig. gen., 4 Jan., 1883.	Priv., sgt., D, 14th Mass. vols., 1st heavy art'y, 5 July, 1861; 2d lt., 16 Feb. 1862; 1st lt., 7 June, 1862; dis., 7 Oct., 1864.	Salem.	
<i>Assistant Adjutants General.</i> James E. Delaney, Holyoke, Jan. 8, 1891.	. . . . .	. . . . .	Lowell.	
William A. Gaston, Boston, Jan. 8, 1891.	. . . . .	. . . . .	Roxbury.	
John H. Cunningham, Chelsea, Jan. 8, 1891.	Charlestown cadets, nine years, . . . . .	. . . . .	South Boston.	
Henry E. Russell, Cambridge, Jan. 8, 1891.	1st corps cadets, 19 July, 1877; 2d, 7 Sept., 1880; 3d, 7 Sept., 1881; dis., exp., 7 Sept., 1882.	. . . . .	Boston.	
John T. Wheelwright, Boston, July 11, 1892.	1st cadets, 14 Oct., 1878, to 14 Oct., 1881; col. and asst quar. mas. gen., staff com.-in-chief, 8 Jan., 1891.	. . . . .	Roxbury,	Roxbury Laidn.

<i>Inspector Gen. Rifle Practice.</i> William L. Chase, Brookline, Jan. 8, 1891.	1st corps cadets, 16 April, 1886; eng., 1st brig., 24 May, 1887; a. d. c., 1st brig., 19 Feb., 1889; a. l. g., staff com.-in-chief, 2 Jan., 1890.	.	.	.	.	.	Grafton.
<i>Assistant Inspectors General.</i> George K. Keeler, Cambridge, Jan. 2, 1890.	5th regt., K. capt., 8 April, 1873; res., 7 July, 1875; 1st cadets, 1876-78; 3d, 1st battl. cav., guidon agt., 1 July, 1886; adjt., 3 Sept., 1886; a. d. c., 2d brig., 10 Jan., 1889.	.	.	.	.	.	Hyde Park, Vt., Chauncy Hall, Boston.
Henry D. Andrews, Boston, Jan. 8, 1891.	1st battl. cav., A, 1 Aug., 1876; 2d, 18 Nov., 1879; agt., 2d lt., 24 Jan., 1881; 1st lt., 24 July, 1883; capt., 22 April, 1884; res., 6 Sept., 1886.	.	.	.	.	.	Bangor, Me.
Frederick G. King, Boston, Jan. 13, 1892.	4th battl. C, 19 March, 1887; corp., 27 Dec. 1887; sergt., 16 June, 1879; 2d lt., C, 1st regt., 22 Dec., 1879; adjt., 28 April, 1881; msj., 28 Dec., 1885; res., 15 Jan., 1891.	.	.	.	.	.	Port Richmond, N. Y.
James L. Carter, Brookline, Jan. 13, 1892.	1st cadets, 12 June, 1874; dte., 12 June, 1877; nav. battl., C, lt. junior grade, 25 Mar., 1890; lt. comdg., 1 Dec., 1891.	1st lt., 10th U. S. C. T., 1864 to 1869; U. S. N. midshipman, 1866 to 1870.	.	.	.	.	Cambridge, U. S. Naval Acad. emy; Engle- wood; Military Academy; N. J. Highland Mil. Academy.
<i>Asst. Quartermasters General.</i> John E. Thayer, Lancaster, Jan. 8, 1891.	.	.	.	.	.	.	Boston.
James H. Carmichael, Lowell, Jan. 8, 1891.	.	.	.	.	.	.	Lowell.
Horace B. Verry, Worcester, Jan. 8, 1891.	.	.	.	.	.	.	Saco, Me.
Percy Parker, Lowell, May 26, 1893.	.	West Point, class, 1879; 2d lt. 8th U. S. inf'try, res., 8 July, 1882.	.	.	.	.	Dracont.
<i>Judge Advocates General.</i> Francis Peabody, Jr., Boston, July 11, 1892.	Col., aide-de-camp, staff com.-in-chief, 8 Jan., 1891.	.	.	.	.	.	U. S. Military Academy.

Governor's Staff—Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Surgeon General.</i> Thomas Kittredge, Salem, Jan. 8, 1891.	2d battl. art'y, asst. surg., 27 April, 1876; dis., 14 Sept., 1876; asst. surg., 21 Aug., 1878; 8th regt., surg., 10 Aug., 1881; 2d brig., med. dir., 7 March, 1883.	.	North Andover.	M. D., Long Island Col. Hospital, 1874.
<i>Commissary General.</i> Charles H. Taylor, Boston, Jan. 8, 1891.	Lt. col., staff com.-in-chief, 1899, 1870, 1871, .	39th regt., M. V. F., 14 Aug., 1893; dis., 18 Dec., 1893.	Charlestown.	
<i>Aides-de-Camp.</i> Walter Cutting, Pittsfield, Jan. 8, 1891.	.	.	Westchester Co., N. Y.	
Michael T. Donahoe, Boston, Jan. 8, 1891.	.	3d N. H. V., capt., 21 Aug., 1891; 10th N. H. V., col., 23 Aug., 1892; brt. brig. gen., 13 March, 1895; dis., 21 June, 1895.	Lowell.	
Spencer Borden, Fall River, Jan. 8, 1891.	.	.	Waterbury, Vt.	
D. Howard Vincent, Boston, July 11, 1892.	.	.		

FIRST BRIGADE. GENERAL AND STAFF.

<i>Brigadier General.</i> Benjamin F. Bridges, Jr., South Deerfield, Jan. 6, 1890.	10th regt. inf., 1892 to 1892; 2d regt., 1st lt., H, 28 Nov., 1871; capt., 16 March, 1874; maj., 8 Aug., 1876; lt. col., 20 Jan., 1879; col., 2 Aug., 1879.	.	Deerfield.	
<i>Assistant Adjutant General.</i> Brodin E. Parker, Mount Col., Boston, Jan. 23, 1890.	2d regt., capt., A, 11 July, 1870; res., 27 April, 1871; adjt., 14 Aug., 1879; judge advocate, 1st brig., 23 March, 1892.	52d M. V. M., A., 11 Oct., 1892; dis., 14 Aug., 1893.	Conway.	

<i>Medical Director.</i> Herbert L. Burrell, Boston, Lieut. Col., Feb. 20, 1889.	1st battl. cav., asst. surg., 3 Aug., 1889; trans to 1st Inf., 10 March, 1884; res., 15 April, 1884; 2d, 1st battl. cav., surg., 15 April, 1884; res., 26 May, 1884.	.	.	.	.	.	Boston, . . .	Harvard Medical, 1879.
<i>Assistant Inspector General.</i> Frank H. Briggs, Boston, Mass., Jan. 2, 1890.	1st reg. inf., K, 5 Feb., 1884; sgt. maj., 6 March, 1884; 2d lt., A, 11 April, 1884; 1st lt., 6 May, 1885; capt., 27 May, 1885.	.	.	.	.	.	Boston, . . .	English High, Boston, 3 years; Institute of Technology, 1 year.
<i>Brigade Quartermaster.</i> Charles L. Hayden, South Doverfield, Capt., Feb. 21, 1880.	2d regt. corp., H, Nov., 1871; mus. ln., 24 July, 1873; dis., 24 July, 1876; sgt., 2d, 9 Aug., 1876; sgt., 10 Aug., 1876; co. quar. mstr., sgt., 19 Sept., 1876; dis., 9 Aug., 1879; paymaster, 14 Aug., 1879.	.	.	.	.	.	Springfield.	
<i>Engineer.</i> Cornel R. Bridges, South Deer- field, May 15, 1891.	Co. H, 2d regt., 2 Aug., 1878; 2d, 2 Aug., 1881; priv., sgt. and sgt. maj., 1st lt. and adjt., 8 Jan., 1887; sgt. maj., 1st brig., 3 April, 1889.	.	.	.	.	.	Greenfield.	
<i>Judge Advocate.</i> Henry S. Dorey, Boston, Capt., Feb. 25, 1889.	1st corps cadets, 11 June, 1880, to 25 Feb., 1889; corp., sgt.	.	.	.	.	.	Hanover, N. H.	
<i>Deputy Marshal.</i> Charles D. Lyford, Brookline, March 16, 1889.	Signal corps, 1st brig., 23 Oct., 1885; priv. and sgt., 1st lt., 2 Jan., 1888.	.	.	.	.	.	Brookline.	
<i>Librairie de Camp.</i> Thomas F. Cordis, Long- meadow, Capt., Feb. 30, 1889.	3d battl. inf., 1st lt. paymaster, 29 Aug., 1876; dis., 20 Aug., 1879; 2d lt., 8 March, 1880.	40th M. V. M., sgt., A, 25 Sept., 1892; dis., 29 July, 1893.	.	.	.	.	Longmeadow.	
Joseph H. Lathrop, Dedham, Jan. 22, 1890.	1st brig., capt., a. d. c., 7 Aug., 1882; res., 4 April, 1883; prov. sgt., 18 April, 1889.	43d M. V. M., priv., D, 12 Sept., 1892; sgt., 22 Sept., 1892; dis., 30 July, 1893; 4th Mass. cav., 2d lt., 25 Jan., 1894; 1st lt., 5 Jan., 1895; adjt., 3 Feb., 1895; dis., 14 Nov., 1896.	.	.	.	.	Bordentown, N. J.	
<i>Asst. Insp. Gen. Rifle Practice.</i> Major. Charles W. Hinnan, Boston, Aug. 24, 1887.	1st regt., D, Nov., 1879, to 16 March, 1886; priv., asst. insp. gen. R. I., 1st brig., capt., 23 April, 1886.	.	.	.	.	.	Boston, . . .	Institute of Tech- nology, 4 years.

First Brigade. General and Staff—Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Signal Officer, 1st Lt.</i> John A. Hunneman, Boston, Feb. 27, 1891.	1st regt., D, 2 May, 1884; corp., 14 Feb., 1887; dis., 2 May, 1887; 2d, 2 May, 1887; 1st lt., 27 May, 1887; res., 1 July, 1890.	. . . . .	Roxbury, . .	Chauncy Hall, 1 year; Roxbury Latin, 3 years.
<i>Ambulance Officer, 2d Lt.</i> Myles Standish, Boston, 2d Lt., March 1, 1889.	. . . . .	. . . . .	Boston, . .	Chauncy Hall; Roxbury Latin; Bowdoin College; Harvard.

FIRST REGIMENT INFANTRY.

<i>Colonel.</i> Thomas E. Mathews, Boston, Dec. 10, 1888.	1st regt., 1st lt., D, 21 Jan., 1878; capt., 26 Jan., 1880; maj., 19 Aug., 1881; lt. col., 28 Dec., 1886.	1st Mass. vols., K, 24 May, 1861; dis., 24 Feb., 1863.	Boston.	
<i>Lieutenant Colonel.</i> Charles L. Hovey, Boston, March 6, 1891.	4th batt., C, 30 April, 1874; corp., sgt., dis., 30 Sept., 1876; 2d, 2 Oct., 1876; 1st sgt., 13 April, 1877; 1st regt., 2d lt., C, 26 May, 1879; 1st lt., 24 Nov., 1879; capt., 13 March, 1882; maj., 26 April, 1884.	. . . . .	Cambridge.	
<i>Majors.</i> Richard H. Morgan, New Bedford, March 6, 1891.	1st regt., E, 24 March, 1886; priv., 1st lt., 3 May, 1886; capt., 8 April, 1889.	. . . . .	New Bedford, .	Institute Technology, 2 years.
Perile A. Dyar, Boston, March, 5, 1891.	1st regt., C, 29 Sept., 1876; dis., 5 Oct., 1877; 2d, 29 April, 1878; 3d, 23 Oct., 1882; 4th, 17 Nov., 1883; 5th, 1 Dec., 1884; 6th, 1 Dec., 1885; 7th, 1 Dec., 1886; priv., corp., sgt., 1st sgt., 2d lt., 23 May, 1887; 1st lt., 26 July, 1887; capt., 16 Aug., 1887.	. . . . .	Lynn.	

Charles F. Aft, Boston, May 18, 1893.	1st corps cadets, 8 Jan., 1880; trans. to N. C. S., 2d brig., 26 July, 1882, as prov. sgt.; dis., exp. service, 8 Jan., 1883; 2d, 1st corps cadets, 19 April, 1884; dis., 19 April, 1886; 3d, 19 April, 1885; dis., 19 April, 1886; 4th, 19 April, 1886; dis., 19 April, 1887; 5th, 19 April, 1887; dis., 19 April, 1888; 6th, 19 April, 1888; dis., 19 April, 1889; 7th, 19 April, 1889; capt., 12 Feb., 1890.	Boston.	Boston Latin.
<i>Adjutant, rank 1st Lt.</i> James A. Frye, Boston, May 9, 1891.	1st regt., sgt. maj., 10 Nov., 1890; 2d, lt., L., 1 April, 1891.	Boston.	Boston Latin.
<i>Quartermaster, rank 1st Lt.</i> Charles B. Woodman, Fall River, 1st Lt., Jan. 10, 1889.	1st regt. inf., M., 31 March, 1870; corp., 8 April, 1880; dis., 31 March, 1882; 2d, 31 March, 1882; 2d lt., 28 Aug., 1882; 1st lt., 24 April, 1883.	Fall River.	
<i>Surgeon, rank Major.</i> Otis H. Marton, Boston, May, 11, 1883.	. . . . .	Burlington.	Harvard College, 1876.
<i>Asst. Surgeon, rank 1st Lt.</i> Horace B. Dearing, Boston, April 1, 1887.	1st regt., hosp. stew., 28 March, 1886.	East Waterborough, Me.	Dartmouth Medical College, Jan. 29, 1882.
<i>Paymaster, rank 1st Lt.</i> Horace B. Parker, Boston, May 26, 1886.	6th regt., A., 6 June, 1876; dis., 31 May, 1877; 2d, 4th battl., A., 10 Sept., 1877; dis., 10 May, 1879; col. sgt., 3d, 1st regt., E., 7 Aug., 1880; 1st sgt.	Roxbury.	
<i>Inspector Rifle Practice, rank 1st Lt.</i> George F. Hall, Boston, 1st Lt., Nov. 8, 1889.	. . . . .	Charlestown.	44th M. V. M., 1, 12 Sept., 1883; dis., 18 June, 1888.
<i>Chaplain.</i> Minot J. Savage, Boston, Nov. 1, 1883.	1st battl. art'y, chap., 18 June, 1876, to 28 April, 1876; 1st battl. cav., 14 Aug., 1876, to 11 Jan., 1882.	Norridgewock, Me.	
<i>COMPANY A—Boston.</i> <i>Captain.</i> John P. Nowell, Boston, June 21, 1885.	1st corps cadets, 14 April, 1887; corp., sgt., 1st inf., H, 2d lt., 25 May, 1891; 1st lt., 20 April, 1892.	Boston.	Boston Latin; English High.

First Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service, Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>First Lieutenant.</i> Sumner Paine, Boston, June 21, 1893.	1st corps cadets, D, 9 Jan., 1891; 2d lt., A, 1st Inf., 16 Feb., 1893.	. . . . .	Boston.	
<i>Second Lieutenant.</i> (Vacancy.)	. . . . .		
COMPANY B — Cambridge.				
<i>Captain.</i> Walter E. Lombard, Cambridgeport, Jan. 23, 1893.	1st regt. B, 17 Mar., 1879; dia., 17 Mar., 1883; 2d, 18 June, 1883; dia., 18 June, 1886; 3d, 18 June, 1890; priv. corp., 2d lt., 16 Aug., 1886; 1st lt., 9 Sept., 1887; reas., 10 Sept., 1891; 4th, 5th regt., C, 10 Sept., 1891; dia., 10 Sept., 1892; priv.	Batt'y A, 1st. art'y, Dist. Columbia N. G., 1 April, 1892; priv., corp.; dia., 23 Jan., 1893.	Cambridgeport.	
<i>First Lieutenant.</i> John E. Day, Allston, Sept. 21, 1891.	1st regt., B, 5 Sept., 1881; 2d, 5 Sept., 1884; 3d, 5 Sept., 1885; 4th, 5 Sept., 1888; 5th, 5 Sept., 1889; 6th, 5 Sept., 1890; 7th, 5 Sept., 1891; corp., 1st sgt.	. . . . .	Brighton.	
<i>Second Lieutenant.</i> Marshall Underwood, Dorchester, Sept. 21, 1891.				
COMPANY C — Boston.				
<i>Captain.</i> Henry W. Atkins, Chelsea, April 11, 1892.	Co. K, 1st regt., 27 July, 1876; dia., 6 July, 1876; co. H, 1st regt., 18 Feb., 1876; corp., 1st sgt., 18 Feb., 1876; 1st lt., 28 April, 1881; 2d, 28 April, 1881; 3d, 31 Jan., 1883; 1st lt., 31 Jan., 1883; capt., 22 July, 1888.	. . . . .	New York City, N. Y.	

First Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Second Lieutenant.</i> Thomas S. Hathaway, New Bedford, March 14, 1892.	1st regt., E, 19 Jan., 1891,	.	New Bedford.	
COMPANY F — Taunton. <i>Captain.</i> Norris O. Danforth, Raynham, Sept. 16, 1889.	1st regt., F, 15 May, 1883; agt., 1st agt., 2d lt., 11 Jan., 1886; 1st lt., 1 June, 1888.	.	North Anson, Me.	
<i>First Lieutenant.</i> Ferdinand H. Phillips, Taunton, Feb. 20, 1893.	1st regt., F, 22 Aug., 1887; dis., 22 Aug., 1890; 2d, 22 Aug., 1890; dis., 23 Aug., 1891; 3d, 22 Aug., 1891; dis., 23 Aug., 1892; 4th, 22 Aug., 1892; corp., agt., 1st agt.	.	Glover, Vt.	
<i>Second Lieutenant.</i> William James Meek, Fall River, Feb. 20, 1893.	1st regt., M, 4th Sept., 1883; 2d, 9th Sept., 1886; 3d, 9th Sept., 1887; 4th, 9th Sept., 1888; corp., agt., 2d lt., 5 Feb., 1889; dis., 27 Feb., 1889; 5th, F co., 7 Nov., 1892, priv.	.	Fall River.	
COMPANY G — Boston. <i>Captain.</i> Albert B. Chick, Boston, Feb. 4, 1891.	1st lt., 8 May, 1890.	.	.	
<i>First Lieutenant.</i> George J. Vickery, Boston, Feb. 4, 1891.	5th regt., D, 1st, 25 Sept., 1879; dis., 25 Sept., 1882; 2d, 25 Sept., 1882; dis., 25 Sept., 1885; 3d, 25 Sept., 1886; priv., corp., agt., 1st agt., 10 Nov., 1887; March, 1888; 2d lt., 10 Nov., 1891.	.	.	Channoy Hall, 7 years.

<i>Second Lieutenant.</i> Joseph A. Verge, Boston, Feb. 6, 1891.	1st regt., B, 1896 to 1898; 2d, 1898 to 1899; 3d, batty. A, 1871; mus., 23 June, 1873; 3d, 7 Aug., 1876; trans. to A, 1st battl. cav., 8 June, 1879; guidon agt., 1st battl. cav., 16 Sept., 1879; 4th, 28 March, 1883; dis., 28 April, 1884; 6th, D, 18 June, 1884; dis., 18 July, 1885; 6th, A, 11 May, 1886.	1st regt. M. V. B. 28 May, 1891; dis., disability, 30 Nov., 1892; 1st agt.	Annapolis, Md.
COMPANY H—Chelsea. <i>Captain.</i> Chester M. Flanders, Chelsea, May 2, 1892.	1st regt., H, 14 June, 1883; dis., 14 June, 1886; 2d, 21 July, 1886; dis., 21 July, 1887; 3d, 28 Oct., 1887; dis., 28 Oct., 1888; corp., agt., 2d lt., 11 Sept., 1889.	. . . . .	Boston.
<i>First Lieutenant.</i> John B. Smith, Chelsea, Sept. 11, 1889.	1st regt. H, 30 Dec., 1885; dis., 30 Dec., 1888; 2d, 30 Dec., 1888; corp., agt., 1st agt.	. . . . .	England.
<i>Second Lieutenant.</i> Walter L. Pratt, Chelsea, June 16, 1892.	1st regt., H, 20 Feb., 1889; 2d, 20 Feb., 1892,	. . . . .	Concord, Mass.
COMPANY I—Brookton. <i>Captain.</i> Charles Williamson, Brookton, March 19, 1888.	1st lt., 15 Aug., 1887.	. . . . .
<i>First Lieutenant.</i> Daniel W. Packard, Brookton, Dec. 18, 1883.	1st regt., I, 12 May, 1884; dis., 12 May, 1887; 2d, 12 May, 1887; priv., corp., 2d lt., 16 April, 1888; 1st lt., 24 Feb., 1890; res., 27 Mar., 1891.	. . . . .	Brookton.
<i>Second Lieutenant.</i> George E. Horton, Brookton, June 20, 1892.	1st regt., I, 11 June, 1883, to 20 June, 1892; priv., corp., agt., 1st agt.	. . . . .	East Bridgewater, . Brookton High.

First Regiment Infantry—Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
COMPANY K—Boston.				
<i>Captain.</i> George F. Quinoy, Roxbury, Aug. 10, 1891.	1st regt., C, 12 April, 1880; dia., 15 April, 1882; 2d, 9 March, 1885; corp., 1st Sgt., 2d Lt., 20 July, 1887; dia., 27 July, 1887; 3d, 1 Aug., 1887; Sgt., 2d Lt., 16 April, 1888; 1st Lt., 18 March, 1891; 1st Lt., K, 20 April, 1891.	. . . . .	Boston.	
<i>First Lieutenant.</i> Frederic S. Howes, Cambridge, Aug. 10, 1891.	1st regt., K, 3 Jan., 1888; 2d, 3 Jan., 1891; Sgt., 2d Lt., 14 May, 1891.	. . . . .	East Boston.	
<i>Second Lieutenant.</i> Herbert L. Chapman, Roxbury, Aug. 10, 1891.	1st regt., C, 2 Nov., 1885; 2d, 19 Nov., 1888; 3d, 19 Nov., 1890, Sgt. maj.	. . . . .	Bath, Me.	
COMPANY L—Boston.				
<i>Captain.</i> Fred M. Whiting, Chelsea, April 16, 1891.	1st regt., L, 2d Lt., 19 Nov., 1890; 1st Lt., 12 March, 1890.	. . . . .	Sturbridge.	
<i>First Lieutenant.</i> Charles E. Lake, Cambridge, April 18, 1891.	1st regt., C, 19 Aug., 1887; corp., 14 May, 1888; Sgt., 19 Nov., 1888; col. Sgt., 21 May, 1890; dia., 19 Aug., 1890; 2d, 19 Aug., 1890; 2d Lt., K, 6 Oct., 1890.	. . . . .	New Jersey.	
<i>Second Lieutenant.</i> (Vacancy.)				

COMPANY M — Fall River.

Captain.

Sierra L. Braley, Fall River,
Dec. 17, 1876.

First Lieutenant.

David Fuller, Fall River, Nov.
22, 1892.

Second Lieutenant.

Walter F. Borden, Fall River,
Nov. 22, 1892.

8d regt., 1st lt., D, 16 Dec., 1866; capt., 2 Jan., 1868;
adjt., 27 March, 1871; dis., 28 April, 1876; 3d battl.,
quar. mas., 1 Sept., 1876; dis., 3 Dec., 1878.

1st regt., M, 11 Dec., 1873; dis., 11 Dec., 1881; 2d, 20
Dec., 1881; dis., 20 Dec., 1882; 3d, 26 Dec., 1882;
dis., 26 Dec., 1883; 4th, 27 Dec., 1883; dis., 27 Dec.,
1884; 5th, 30 Dec., 1884; dis., 30 Dec., 1885; 6th, 30
Jan., 1886; dis., 30 Jan., 1887; 7th, 11 Feb., 1887;
dis., 11 Feb., 1888; 8th, 21 Feb., 1888; dis., 21 Feb.,
1889; 9th, 21 Feb., 1889; corp., sgt., 1st sgt., 2d lt.,
10 Dec., 1889.

1st regt., M, 4 Dec., 1883, to 22 Nov., 1892, priv.,
corp., sgt., 1st sgt.

Fall River.

3d M. V. M., corp., D, 23 Sept., 1892;
dis., 26 June, 1893; 2d Mass. hvy.
ar'y, sgt., I, 11 Dec., 1893; 2d lt.,
14th U. S. col'd ar'y, 3 June, 1895;
dis., 11 Dec., 1895.

Bohm Kamnitz,
Austria.

5th U. S. ar'y, batty. A, 4 Feb., 1897;
dis., 4 Feb., 1870; 2d, 10 June, 1870;
dis., 10 June, 1876; corp., sgt.

Fall River.

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SECOND REGIMENT INFANTRY.

Colonel.

Embury P. Clark, Springfield,
Feb. 2, 1899.

Lieutenant Colonel.

Edwin R. Shumway, Worcester,
Nov. 3, 1893.

Majors.

Pharcellus D. Bridges, South
Deerfield, May 3, 1888.

Fred'k G. Southmayd, Spring-
field, Feb. 2, 1899.

2d regt., sgt., K, 1866; capt., 4 June, 1869; maj., 14
Aug., 1871; lt. col., 31 Aug., 1876; dis., 28 April,
1876; capt., D, 23 Dec., 1878; lt. col., 2 Aug., 1879.

10th regt., A, 1869; corp., sgt., 2d lt., 26 Nov., 1872;
1st lt., 18 Jan., 1876; capt., 28 Aug., 1876; maj., 11
April, 1884.

2d regt., A, 1871; mus. in, 26 July, 1873; 2d lt., 16
March, 1875; capt., 9 Aug., 1876.

2d regt., B, 22 Nov., 1870; corp., sgt., 1st sgt., mus. in,
29 July, 1873; dis., 28 July, 1876; 2d, 14 Sept., 1876;
1st lt., 2 Oct., 1876; capt., 2 April, 1887.

Buckland.

46th M. V. M., corp., B, 16 Oct., 1862;
dis., 29 July, 1863.

Jamaica, Va.

4th Va. vols., I, F, 21 Sept., 1861;
corp., sgt., re-enlisted, 16 Dec., 1863;
dis., 13 July, 1866.

Deerfield.

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Middletown, Conn.

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Second Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
Reuben A. Whipple, Adams, Nov. 3, 1833.	2d regt., M, capt., 18 Nov., 1837,	8th regt., M. V. M., B, 16 July, 1864; dis., 10 Nov., 1864; exp. of ser., priv.	Smithfield, R. I.	
<i>Adjutant, rank 1st Lt.</i> John E. Lancaster, Worcester, April 6, 1839.	2d regt., O, 13 June, 1835; 2d lt., 18 June, 1835; res., 7 May, 1837; 2d, 10 May, 1837; sgt., mal., 12 May, 1837; 1st brig., provost sgt., 21 Feb., 1839.	. . . . .	New York, N. Y.	
<i>Quartermaster, rank 1st Lt.</i> Charles D. Colson, Holyoke, July 16, 1831.	6th regt., G, 1835 to 1839; corp., 2d regt., 2d lt., K, 9 March, 1876; dis., 29 Nov., 1876; 1st lt., D, 23 Dec., 1878; quar. mstr., 14 Aug., 1879; dis., 21 April, 1881.	. . . . .	Lowell.	
<i>Surgeon, rank Major.</i> David Clark, Springfield, Aug. 25, 1876.	2d regt., surg., 18 Sept., 1872; dis., 28 April, 1876.	18th Ohio vol., W, 5 June, 1861; dis., 28 June, 1864; 4th regt., U, 8 Oct., 1864, 8 April, 1866; dis., 8 April, 1866.	Brighton, Ohio,	M. D., Pennsylvania, 1869.
<i>Asst. Surgeon, rank 1st Lt.</i> Orland J. Brown, North Adams, Sept. 20, 1876.	. . . . .	. . . . .	Whittingham, Vt.,	University of Vermont, 1870.
<i>Paymaster, rank 1st Lt.</i> Archibald C. Edson, Holyoke, March 19, 1862.	. . . . .	. . . . .
<i>Insp. Rifle Practice, rank 1st Lt.</i> Sylvester B. Buntstead, Springfield, April 26, 1866.	2d regt., G, 22 Aug., 1862; 2d, 22 Aug., 1865,	. . . . .	Chilcopee.	
<i>Chaplain.</i> John G. Wellwood, Holyoke, May 9, 1891.				

COMPANY A — Worcester.						
<i>Captain.</i> William A. Condy, Worcester, July 16, 1886.	2d regt., A, 29 May, 1882; corp., 2 March, 1883; 2d, 23 May, 1886; sgt., 9 June, 1886; 3d, 23 May, 1886; 2d lt., 28 June, 1886; 1st lt., 15 Nov., 1887.	.	.	.	.	Lowell.
<i>First Lieutenant.</i> Moses H. Tisdell, Worcester, July 16, 1886.		.	.	.	.
<i>Second Lieutenant.</i> Edwin G. Barrett, Worcester, July 18, 1888.	2d regt., co. A, 26 May, 1885; corp., sgt., 1st sgt., dis., 25 May, 1888; 2d, 22 May, 1888.	.	.	.	.	Springfield.
COMPANY B — Springfield.						
<i>Captain.</i> Henry McDonald, Springfield, Feb. 9, 1889.	2d battl. inf., B, 23 Sept., 1876; corp. sgt., 1st sgt., 1st lt., 2 April, 1887; commission received 11 Jan., 1893; decision sup. jud. court; re-elected, 16 May, 1892.	2d	inf., U. S. A., C., 11 March,	1870;		New York, N. Y.
<i>First Lieutenant.</i> (Vacancy.)						
<i>Second Lieutenant.</i> John A. Sterling, Springfield, Feb. 9, 1889.	2d regt., B, 12 March, 1883; dis., 12 March, 1886; 2d, 12 March, 1886; dis., 12 March, 1887; 3d, 12 March, 1887; dis., 12 March, 1888; 4th, 12 March, 1888; mus., corp. and sgt.	U. S. ordnance dept., 1st class priv., 4 years.				Warren, Vt.
COMPANY C — Worcester.						
<i>Captain.</i> Harry B. Fairbanks, Worcester, Aug. 23, 1891.	2d regt., C, 1st, 10 March, 1884; dis., 10 March, 1887; 2d, 10 March, 1887; priv., corp. and sgt., 1st, 6 June, 1887.	.	.	.	.	Southbridge.
<i>First Lieutenant.</i> Phineas L. Rider, Worcester, Aug. 23, 1891.	10th regt., C, 7 Sept., 1877; dis., exp. of service from 2d C, 7 Sept., 1880; 2d, 2d lt., 27 Jan., 1883; res., 23 Jan., 1884; 3d, 4 Dec., 1889; priv., sgt., 2d lt., 17 Sept., 1890.	.	.	.	.

Second Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Second Lieutenant.</i> William F. Glinan, Worcester, Aug. 25, 1891.	2d regt., C, 1878 to 1882; corp., sgt., . . . . .	. . . . .	Taunton,	Highland Military Academy.
COMPANY D — Holyoke.				
<i>Captain.</i> Charles W. Brown, Holyoke, June 7, 1881.	2d regt., D, 17 Dec., 1878; corp., 2 April, 1890; 1st lt., 17 Aug., 1890.	. . . . .	Epsom, N. H.	
<i>First Lieutenant.</i> Edgar R. Train, Holyoke, April 8, 1891.	2d regt., F, May, 1876; priv., corp., dis., Aug., 1876; 2d, D, 19 Jan., 1882; priv., corp., sgt., 1st sgt.	. . . . .	Northampton.	
<i>Second Lieutenant.</i> John P. Blakeslee, Holyoke, April 8, 1891.	2d regt., D, 17 Dec., 1882; 2d, 17 Dec., 1885; 3d, 17 Dec., 1886; 4th, 17 Dec., 1887; corp., sgt., col. sgt., 15 May, 1888; sgt. maj., 8 May, 1890.	. . . . .	Chilcopee.	
COMPANY E — Orange.				
<i>Captain.</i> Philip I. Barber, Orange, May 11, 1893.	1st, 2d regt., B, 3 Oct., 1876; dis., 3 Oct., 1879; 2d, 13 Sept., 1880; dis., 13 Sept., 1881; 3d, co. E, 10 April, 1886; mus. and 1st sgt., 2d, 13 Jan., 1887; 1st lt., 3 April, 1890.	. . . . .	Berlin, Conn.	
<i>First Lieutenant.</i> Joseph B. Farley, Orange, May 11, 1893.	2d regt., E, 2d lt., 3 April, 1890, . . . . .	. . . . .	Colrain.	
<i>Second Lieutenant.</i> Frank F. Hooper, Orange, May 11, 1893.				

COMPANY F—Gardner.	
<i>Captain.</i> Charles N. Eggeil, Gardner, Sept. 16, 1890.	1st lt., 20 May, 1884.
<i>First Lieutenant.</i> Albert A. Fowler, Gardner, Sept. 16, 1890.	2d regt., F, 10 Sept., 1884; dis., 10 Sept., 1887; 2d, 10 Sept., 1887; dis., 10 Sept., 1888; 3d, 10 Sept., 1888; 2d lt., 10 July, 1889.
<i>Second Lieutenant.</i> Herbert H. Bowles, Gardner, Sept. 16, 1890.	2d regt., F, 23 May, 1887; priv., corp., 30 May, 1888; sgt., 27 May, 1889; 1st sgt., 4 Oct., 1889.
COMPANY G—Springfield.	
<i>Captain.</i> John J. Leonard, Springfield, March 8, 1888.	2d regt., G, 11 April, 1877; sgt., 1 Sept., 1879; dis., 11 April, 1880; 2d, 12 April, 1880; 1st sgt., 19 April, 1880; dis., 12 April, 1882; 3d, 24 April, 1882; 1st lt., 27 June, 1882.
<i>First Lieutenant.</i> William C. Hayes, Springfield, Feb. 1, 1892.	2d regt., G, 13 Jan., 1885; dis., 13 Jan., 1888; 2d, 13 Jan., 1888; dis., 13 Jan., 1889; 3d, 14 Jan., 1889; dis., 14 Jan., 1890; 4th, 14 Jan., 1890; priv., sgt., 1st sgt., 2d lt., 23 May, 1890.
<i>Second Lieutenant.</i> Roger Morgan, Springfield, Feb. 1, 1892.	
COMPANY H—South Deerfield.	
<i>Captain.</i> Marcellus D. Bridges, South Deerfield, Oct. 7, 1890.	2d regt., H, 20 May, 1882; dis., 30 May, 1885; 2d, 30 May, 1885; 2d lt., 12 May, 1888; 1st lt., 9 Feb., 1889.
<i>First Lieutenant.</i> Arthur G. Chida, South Deer- field, Oct. 7, 1890.	2d regt., H, 18 March, 1886; 2d lt., 9 Feb., 1889,

Second Regiment Infantry — Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Second Lieutenant.</i> Eugene T. Bridges, South Deerfield, March 14, 1891.	2d regt., H. 16 June, 1883; 2d, 16 June, 1886; 3d, 16 June, 1889; corp., sgt.	.	South Deerfield.	
COMPANY I — Northampton.				
<i>Captain.</i> Henry L. Williams, Northampton, Dec. 13, 1892.				
<i>First Lieutenant.</i> Robert E. Southwick, Northampton, Dec. 13, 1892.				
<i>Second Lieutenant.</i> George P. Allen, Northampton, Dec. 13, 1892.				
COMPANY K — Amherst.				
<i>Captain.</i> Edgar G. Thayer, Amherst, May 4, 1899.	1st lt., 19 Nov., 1887,	7th Vt. vols., 18 Feb., 1864; dis., 1 March, 1866.	Winchester, N. H.	
<i>First Lieutenant.</i> Willard A. Thayer, Amherst, April 11, 1890.	2d regt., K, 19 Nov., 1887,	N. H. V. M., 6 years,	Winchester, N. H.	
<i>Second Lieutenant.</i> Charles E. Rodgers, Leverett, April 22, 1893.				

COMPANY L — Greenwood.											
<i>Captain.</i> Frederick E. Pierce, Greenwood, Jan. 16, 1891.		1st lt., 21 Nov., 1887,	.	.	.	.	.	.	.	.	Glenwood, Iowa.
<i>First Lieutenant.</i> Charles H. Field, Greenwood, April 8, 1892.		2d regt., 27 Nov., 1887; 2d, 27 Nov., 1890; priv., corp., sgt.; 2d lt., 24 April, 1891.	.	.	.	.	.	.	.	.	Leverett.
<i>Second Lieutenant.</i> Frederick B. Felton, Greenwood, May 2, 1892.		2d regt., 21 Nov., 1887; 2d, 21 Nov., 1890; priv., corp.,	.	.	.	.	.	.	.	.	Springfield.
COMPANY M — Adams.											
<i>Captain.</i> Ezra N. Jones, Adams, Dec. 18, 1893.		2d regt., M, 1st lt., 18 Nov., 1887,	.	.	.	.	.	.	.	17th Vt. vols., H, 15 months,	Northfield, Vt.
<i>First Lieutenant.</i> Herbert O. Hicks, Adams, Dec. 18, 1893.		2d regt., M, 16 Jan., 1888; 2d, 16 Jan., 1891; 3d, 16 Jan., 1892; 4th, 16 Jan., 1893; sgt., 1st sgt., 2d lt., 9 Jan., 1893.	.	.	.	.	.	.	.	.	Readsboro, Vt.
<i>Second Lieutenant.</i> George E. Simmons, Adams, Dec. 18, 1893.		2d regt., M, 18 Nov., 1887, to 18 Nov., 1890; 2d, 18 Nov., 1890, to 18 Nov., 1891; 3d, 18 Nov., 1891, to 18 Nov., 1892; 4th, 18 Nov., 1892, to 18 Nov., 1893; 5th, 18 Nov., 1893; corp., sgt., 1st sgt.	.	.	.	.	.	.	.	.	Adams, Mass.
SIXTH REGIMENT INFANTRY.											
<i>Colonel.</i> Henry Parsons, Marlborough, March 24, 1890.		6th regt., 1st lt., E, 11 Aug., 1878; capt., 28 Jan. 1879; maj., 9 April, 1879; lt. col., 16 May, 1884.								148th N. Y. vols., 2d lt., H, 6 Sept., 1893; 1st lt., 26 Oct., 1893; capt., 14 Dec., 1894; brev. maj., N. Y. vols., M. O., 22 June, 1896.	New York, N. Y.

Sixth Regiment Infantry—Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Lieutenant Colonel.</i> Charles F. Woodward, Wakefield, March 24, 1890.	6th regt., corp., sgt., A, 1890; mus. in, 8 June, 1873; dis., 9 June, 1876; 2d lt., 25 Aug., 1876; 1st lt., 18 Nov., 1876; capt., 27 Feb., 1879; maj., 7 Feb., 1882.	. . . . .	South Reading.	
<i>Majors.</i> George H. Chaffin, Southbridge, May 16, 1884.	10th regt., G, 27 July, 1867; mus. in, 29 July, 1873; 2d lt., 4 Aug., 1876; 1st lt., 17 March, 1876; capt., H, 29 April, 1881.	. . . . .	Grafton,	Highland Military Academy, 1876; Pen. Mf. Acad., 1 year.
George H. Taylor, Wakefield, July 2, 1890.	Co. A, 6th regt., priv., corp., sgt., 20 March, 1880; 2d lt., 17 April, 1883; 1st lt., 25 Aug., 1884; capt., 14 May, 1888.	. . . . .	Somerville,	Hyde Park High School.
Charles K. Darling, Boston, April 4, 1893.	6th regt., 12 Sept., 1887; sgt., maj., adjt., 25 Feb., 1890,	. . . . .	Corinth, Vt.,	U. S. Military Academy, 18 months.
<i>Adjutant, rank 1st Lt.</i> James T. Souther, Boston, April 12, 1893.	1st corp. cadets, 25 Sept., 1884, to 25 Sept., 1887; 2d, 25 Sept., 1887, to 25 Sept., 1888; 3d, 25 Sept., 1888, to 25 Sept., 1889; 4th, 2d brig., N. O. S., sgt., clerk, 23 April, 1891.	. . . . .	Lausanne, Switzerland.	
<i>Quartermaster, rank 1st Lt.</i> John M. Carpenter, Marlborough, April 16, 1892.	. . . . .	. . . . .	Abbeville,	M. D., Harvard, 1890.
<i>Surgeon, rank Major.</i> Charles H. Rice, Fitchburg, Dec. 27, 1884.	. . . . .	. . . . .	. . . . .	Univ. Med. Col., 1891.
<i>Assistant Surgeon, rank 1st Lt.</i> Omer P. Porter, Lowell, April 15, 1890.	6th regt., E, 2 April, 1877; dis., 14 June, 1878; 2d, 6th regt., C, 6 March, 1882; dis., 6 March, 1883.	. . . . .	. . . . .

Sixth Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>First Lieutenant.</i> Horatio D. Moulton, Fitchburg, March 18, 1892.	6th regt., B, 16 Feb., 1886; dis., 16 Feb., 1888; 2d, 20 Feb., 1888; dis., 20 Feb., 1890; 3d, 20 Feb., 1890; dis., 20 Feb., 1890; 4th, 20 Feb., 1890; priv., corp., sgt., 1st sgt., 2d lt., 3 Nov., 1890.	. . . . .	Fitchburg.	
<i>Second Lieutenant.</i> David W. Colburn, Fitchburg, March 18, 1892.	6th regt., B, 31 Aug., 1886, to 18 March, 1892; priv., corp., sgt., 1st sgt.	. . . . .	Washington, N. H.	
COMPANY C — Lowell.				
<i>Captain.</i> Arthur D. Prince, Lowell, Nov. 11, 1893.	Amb. corps, 1st brig., 10 May, 1887; 2d, 15 May, 1890; 6th regt., C, 2d lt., 25 March, 1891; 1st lt., 26 Aug., 1893.	. . . . .	Lawrence.	
<i>First Lieutenant.</i> Harry T. B. Richardson, Lowell, Nov. 11, 1893.	6th regt., C, 17 Sept., 1890, to 11 Nov., 1893, . . . . .	. . . . .	Lowell.	
<i>Second Lieutenant.</i> Alexander Greis, Jr., Lowell, Dec. 2, 1891.	6th regt., C, 8 Feb., 1888; 2d, 11 Feb., 1891; 2d cadet, 10 April, 1891; 1st lt., 5 May, 1891; dis., 27 May, 1891.	. . . . .	Fort Glasgow, Scotland.	
COMPANY D — Fitchburg.				
<i>Captain.</i> James E. McConnell, Fitchburg, Dec. 1, 1890.	. . . . .	. . . . .	North Adams.	
<i>First Lieutenant.</i> John F. McNamara, Fitchburg, Nov. 18, 1893.	6th regt., D, 20 Dec., 1886; sgt., 7 June, 1889, . . . . .	. . . . .	Westford.	

<i>Second Lieutenant.</i> John J. Dittcoll, Fitchburg, Dec. 21, 1892.	6th regt., D, 22 March, 1886; dis. 22 March, 1889; 2d, 18 April, 1889; dis. 18 April, 1890; 3d, 12 May, 1890; dis. 12 May, 1891; 4th, 22 May, 1891; dis., 22 May, 1892; 5th, 22 May, 1892; agt., 1st agt.	. . . . .	Fitchburg.
<i>COMPANY E — So. Framingham.</i> <i>Captain.</i> Frank E. Miller, So. Framing- ham, Jan. 23, 1893.	1st, C, 11 Sept., 1879, to 27 Oct., 1887, . . . . .	. . . . .	South Framingham
<i>First Lieutenant.</i> Frederic E. Valentine, Fram- ingham, Dec. 11, 1893.	6th regt., E, 27 Jan., 1893, to 11 Dec., 1893; agt., agt., major.	. . . . .	Framingham.
<i>Second Lieutenant.</i> Walter F. Biate, So. Framing- ham, Dec. 11, 1893.	6th regt., E, 27 Jan., 1893, to 11 Dec., 1893, . . . . .	. . . . .	Franklin.
<i>COMPANY F — Marlborough.</i> <i>Captain.</i> George A. Devlin, Marlborough, Dec. 18, 1893.	5th regt., K, 21 Nov., 1887; priv., corp., agt., 1st agt., 6th regt., F, 2d lt., 18 June, 1891; 1st lt., 14 April, 1892.	. . . . .	Quincy.
<i>First Lieutenant.</i> Harold B. Chamberlain, Marl- borough, Dec. 18, 1893.	6th regt., F, 17 April, 1879, to 16 Feb., 1893; priv., corp., agt., 2d lt., 16 Feb., 1893.	. . . . .	Marlborough.
<i>Second Lieutenant.</i> (Vacancy.) <i>COMPANY G — Lowell.</i> <i>Captain.</i> Edward B. Carr, Lowell, Aug. 24, 1892.	6th regt., G, 19 Aug., 1885; dis., 19 Aug., 1888; 2d, 7 Sept., 1888; priv., corp., agt., 1st agt., 1st lt., 8 April, 1890.	. . . . .	Brooks, Me.

Sixth Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>First Lieutenant.</i> William Fairweather, Lowell, Aug. 24, 1892.	6th regt., C, 11 Sept., 1886; dis., 6 April, 1888; 2d, G, 4 March, 1890; corp., sgt.	. . . . .	Dundee, Scotland.	
<i>Second Lieutenant.</i> George S. Howard, Lowell, Aug. 24, 1892.	6th regt., G, 5 Oct., 1885; corp., sgt.; dis., 5 Oct., 1886; 2d, 24 March, 1889; dis., 24 March, 1891; 3d, 24 March, 1891; dis., 24 March, 1892; 4th, 27 March, 1892.	. . . . .	Northbridge.	
<i>COMPANY H — Stoneham.</i> <i>Captain.</i> Stanwood G. Swasee, Stoneham, Dec. 29, 1890.	6th regt., H, 13 April, 1886; priv., corp., sgt., 1st sgt., 1st lt., 4 Jan., 1888.	. . . . .	Stoneham.	
<i>First Lieutenant.</i> Fred G. Green, Stoneham, Dec. 29, 1890.	6th regt., H, 11 Oct., 1889; dis., 11 Oct., 1888; 2d, 4 Dec., 1886; dis., 4 Dec., 1886; 3d, 3 Jan., 1887; dis., 8 Jan., 1888; 4th, 19 Jan., 1889; dis., 19 Jan., 1889; 5th, 24 Jan., 1889; dis., 24 Jan., 1890; 6th, 10 Jan., 1890.	. . . . .	Stoneham.	
<i>Second Lieutenant.</i> Ernest F. West, Stoneham, March 7, 1892.	6th regt., H, 3-April, 1888; 1st sgt.	. . . . .	Stockton Springs, Me.	
<i>COMPANY I — Concord.</i> <i>Captain.</i> Frank E. Cutter, Concord, May 5, 1886.	6th regt., C, 6th regt., I, priv., corp., 1st sgt., 27 March, 1882, to 22 Dec., 1883; 2d lt., 22 Dec., 1883; 1st lt., 27 Aug., 1884.	. . . . .	Concord.	

<i>First Lieutenant.</i> Samuel H. Tuttle, Concord, Jan. 20, 1891.	6th regt., I, 17 April, 1887; priv., corp., sgt., 2d lt., 4 April, 1888.	. . . . .	South Acton.
<i>Second Lieutenant.</i> Cyrus H. Cook, Concord, Jan. 20, 1891.	6th regt., I, 25 May, 1883; 2d, 7 Oct., 1888; corp., 3d, 5 Feb., 1889, sgt.	. . . . .	Roxbury.
COMPANY K — Southbridge. <i>Captain.</i> Ulysses A. Goodell, South- bridge, March 10, 1893.	6th regt., K, 2 April, 1888; musician, 2d lt., 2 May, 1890; 1st lt., 6 March, 1891.	. . . . .	Southbridge.
<i>First Lieutenant.</i> Andrew M. Higgins, South- bridge, March 10, 1893.	6th regt., K, 2 April, 1888; priv., corp. and sgt.; 2d lt., 6 March, 1891.	. . . . .	Hardwick.
<i>Second Lieutenant.</i> Henry L. Brousseau, South- bridge, March 10, 1893.	6th regt., K, 2 April, 1888, to 10 March, 1893; priv., corp., sgt.	. . . . .	Webster.
COMPANY L — Boston. <i>Captain.</i> William J. Williams, Boston, April 20, 1891.	6th regt., L, 27 March, 1891, . . . . .	. . . . .	Toronto, Canada.
<i>First Lieutenant.</i> William H. Jackson, Boston, April 20, 1891.	6th regt., L, 27 March, 1891, . . . . .	. . . . .	Virginia.
<i>Second Lieutenant.</i> William H. Turner, Boston, Sept. 17, 1893.	6th regt., L, 14 May, 1886; priv., corp., sgt., 1st sgt., .	. . . . .	Charlestown.

Sixth Regiment Infantry—Concluded.

NAME. ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
COMPANY M—Milford.				
<i>Captain.</i> John T. Berrill, Milford, Dec. 20, 1886.	6th regt., M. 22 Feb., 1879; priv.; corp., sgt. and 1st sgt., 10 Aug., 1884; 2d lt., 11 Aug., 1884; 1st lt., 6 April, 1886.	. . . . .	Leicester, England.	
<i>First Lieutenant.</i> Harold E. Fales, Milford, July 10, 1888.	6th regt., M. 19 Nov., 1888; 2d, 19 Nov., 1891; corp., 2d lt., 21 Dec., 1891.	. . . . .	Milford.	
<i>Second Lieutenant.</i> Horace R. Church, Milford, July 10, 1893.	6th regt., M. 6 May, 1892, to 10 July, 1893; priv., corp.,	. . . . .	Worcester.	

FIRST BATTALION LIGHT ARTILLERY.

<i>Major.</i> Lawrence N. Ducheaney, Boston, May 19, 1893.	6th regt., K. 3 May, 1871; 1st lt., 17 May, 1871; dis., 20 Nov., 1872; 1st lt., K. 14 April, 1873; capt., 23 Aug., 1873; co. trans. to 8th regt., 3 Dec., 1878; maj., 18 Jan., 1882; res., 29 Jan., 1883; capt., G. 9th, 29 Jan., 1883; res., 25 April, 1884; capt., M. 8th, 25 April, 1884; co. trans. to 1st battl. art'y as batt'y C, G. O. S., 1886; capt., 25 April, 1884.	6th M. V. M., F. 21 April, 1861; dis., 3 Aug., 1861; 1st cav., Mass. vol., sgt., H. 22 Nov., 1861; 2d lt., B. 16 Jan., 1863; 1st lt., 16 Feb., 1864; capt., E., Mass.; battl. 29th N. Y. cav., 3 April, 1865; dis., 16 July, 1866.	Kingsey, C. E.	
<i>Adjutant, rank 1st Lt.</i> Winfield G. Merrill, Lawrence, Dec. 8, 1890.	1st battl. art'y, 3 Aug., 1882; dis., 3 Aug., 1886; 2d, 3 Aug., 1886; dis., 3 Aug., 1888; 3d, 3 Aug., 1888; guidon sgt., sgt. maj.	. . . . .	Lawrence.	
<i>Quartermaster, rank 1st Lt.</i> William H. Hennessey, Lynn, May 21, 1893.	1st battl. art'y, batt'y C. 20 Dec., 1884; priv., corp., sgt., 2d lt., 1 May, 1885; res., 6 May, 1886; batt'y disbanded, 2d lt., 20 Feb., 1888.	Ireland.	

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First Battalion Light Artillery—Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
BATTERY C—Lawrence. <i>Captain.</i> William I. Stedman, Lawrence, May 24, 1893.	6th regt., K, 2 April 1877; co. trans., 3 Dec., 1878, to 8th regt., as M. dis., 2 April, 1880; 2d, 12 May, 1880; dis., 12 May, 1881; 3d, 17 June, 1881; co. trans. to 1st battl. art'y as batt'y C, G. O. 6, 1886; 1st lt., 3 March, 1882.	.	Leicester,	Norwich University, Norwich.
<i>First Lieutenant.</i> George A. Sanborn, Lawrence, Oct. 14, 1887.	8th regt., M, 8 April, 1881; 2d, 8 April, 1884; 3d, 8 April, 1885; 4th, 8 April, 1886; priv., corp., agt., 1st agt., 2d lt., 25 May, 1886.	.	Lawrence.	
Charles F. Sargent, Lawrence, May 24, 1893.	8th regt., M, 1st, 16 April, 1881; dis., 16 April, 1884; 2d, 16 April, 1884; dis., 16 April, 1885; 3d, 16 April, 1885; dis., 16 April, 1886; 4th, 16 April, 1886; co. trans. to 1st battl. art'y as batt'y C, 10 May, 1886; 2d lt., 18 April, 1887.	.	Lawrence.	
<i>Second Lieutenant.</i> George H. Goldsmith, Lawrence, May 24, 1893.	1st battl. art'y, battery C, 24 May, 1886 to 24 May, 1889; 2d, 14 July, 1890 to 14 July, 1891; 3d, 14 July, 1891 to 14 July, 1892; 4th, 14 July, 1892 to 24 May, 1893; priv., corp., agt., 1st agt.	.	Oaspee, N. H.	
John S. Powell, Lawrence, May 24, 1893.	8th regt., M, 12 July, 1883; co. trans. to 1st battl. art'y as batt'y C, 10 May, 1886; 2d, 12 July, 1886; 3d, 12 July, 1887; 4th, 12 July, 1888; 5th, 12 July, 1889; 6th, 12 July, 1890; 7th, 12 July, 1891; 8th, 12 July, 1892; quar. mas. agt.	.	Wales.	

COMPANY F, CAVALRY.

COMPANY F — Westfield.			
<i>Captain.</i> Eliaba H. Shaw, North Chelmsford, Sept. 16, 1863.	Co. F, cav., 6 Sept., 1877; dia., 6 Sept., 1880; 2d, 6 Sept., 1880; dia., 6 Sept., 1883; 3d, 6 Sept., 1883; dia., 6 Sept., 1886; 4th, 6 Sept., 1886; priv., corp., sgt., 1st lt., 21 Dec., 1888.	. . . . .	North Chelmsford.
<i>Asst. Surgeon, rank 1st Lt.</i> Amasa Higard, Chelmsford, Feb. 19, 1889.	2d, lt. and ambulance officer, 1st brig., 22 April, 1887.	. . . . .	Chelmsford, . . . Dartmouth Medical College.
<i>First Lieutenant.</i> Amos R. Leighton, Westford, Sept. 16, 1863.	Co. F, cav., 6 Sept., 1880; dia., 6 Sept., 1883; 2d, 6 Sept., 1883; dia., 6 Sept., 1886; 3d, 6 Sept., 1886; priv., corp., sgt., 2d lt., 21 Dec., 1888.	. . . . .	Westford.
<i>Second Lieutenant.</i> William J. Quigley, North Chelmsford, Sept. 16, 1863.	Cav., co. F, 3 Sept., 1881; 2d, 3 Sept., 1884; 3d, 3 Sept., 1887; 4th, 3 Sept., 1890; 5th, 3 Sept., 1893; sgt.	. . . . .	North Chelmsford.

SECOND BRIGADE, GENERAL AND STAFF.

<i>Brigadier General.</i> Benjamin F. Peach, Jr., Lynn, Feb. 16, 1882.	6th regt., C, 31 May, 1854; 8th regt., C, 1856; sgt., 20 April, 1857; 1st sgt., 27 May, 1858; 1st lt., March, 1862; adjt., Sept., 1862; col., 22 July, 1864; dia., 28 April, 1876; re-elected, 24 July, 1876; commission vacated, 11 Jan., 1882, decision sup. jud. court; re-elected, 15 Jan., 1892.	8th M. V. M., 1st sgt., C, 30 April, 1861; dia., 1 Aug., 1861; adj., 7 Nov., 1863; dia., 7 Aug., 1863; col., 26 July, 1864; mus. out, 10 Nov., 1864.	Marblehead.
<i>Asst. Adjt. Gen., rank Lt. Col.</i> Charles C. Fry, Lynn, March 4, 1882.	11th unatt. co. inf., sgt., 25 Oct., 1864; 1st lt., 27 Jan., 1865; 8th regt., quar. mas., 21 July, 1874; adjt., 3 Aug., 1874; dia., 28 April, 1876; 7th battl. inf., maj., 21 July, 1876; battl. disbanded, 15 Aug., 1878; 8th regt., adjt., 16 May, 1879.	8th M. V. M., corp., I, 15 Sept., 1862; dia., 7 Aug., 1863.	Lynn.

Second Brigade, General and Staff—Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Medical Director, rank Lt. Col.</i> Freeman C. Hersey, Salem, April 13, 1891.	8th regt., surg., 1 June, 1886, . . . . .	. . . . .	Corinth, Me.,	Bowdoin College, Brunswick, Me.
<i>Asst. Insp. Gen., rank Major.</i> Aaron A. Hall, Boston, April 13, 1891.	1st battl. cav., D. 23 May, 1865; priv., corp., sgt., 2d lt., 24 May, 1870; 1st lt., 20 March, 1872; capt., 18 Feb., 1875; res., 3 Jan., 1880; prov. marshal, 8 July, 1882.	42d M. V. M., sgt., 20 July, 1884; dis., 11 Nov., 1884.	Gardner, Me.	
<i>Asst. Insp. Gen. Rifle Practice, rank Major.</i> (Vacancy.)				
<i>Brig. Quartermaster, rank Capt.</i> Augustus N. Rantoul, Salem, March 30, 1893.	2d brig., N. C. S., quar. mas. sgt., 21 April, 1891,	. . . . .	Salem,	Collegede Genloe, Genlon, Swit- zerland.
<i>Engineer, rank Capt.</i> Philip Little, Salem, May 1, 1891.	2d brig., col. sgt., 14 June, 1888, . . . . .	. . . . .	Swampscott,	Institute of Tech- nology.
<i>Judge Advocate, rank Capt.</i> Elijah George, Boston, Aug. 12, 1892.	1st corp. cadets, priv., 5 Feb., 1880; capt., judge advo- cate, 1st brig., 13 July, 1881; res., 24 Feb., 1882.	. . . . .	New Rochelle, N.Y.	
<i>Provost Marshal, rank Capt.</i> Gordon Dexter, Beverly, March 30, 1893.	1st corps cadets, 22 Jan., 1886; 2d, 25 Jan., 1889; 3d, 25 Jan., 1890; 4th, 25 Jan., 1891; trans. to 2d brig., N. C. S., as prov. sgt., 6 May, 1891.	. . . . .	Beverly.	
<i>Adies-de-Camp, rank Capt.</i> Newell A. Thompson, Boston, May 28, 1896.	1st regt., sgt., maj., 4 June, 1879; 6th regt., adjt., 20 Dec., 1879; dis., 7 Dec., 1881; sgt. maj., 2d brig., 27 June, 1886.	. . . . .	Boston,	Boston Latin School.

FIFTH REGIMENT INFANTRY.

FIFTH REGIMENT INFANTRY.									
William T. Lambert, Boston, Jan. 16, 1884.	1st corps cadets, 1st, 16 March, 1876; 2d, 31 March, 1879; 3d, 26 Aug., 1880; 4th, 11 Oct., 1881; corp., June, 1882; sgt. maj., 2d brig., 7 July, 1882; eng., 15 Jan., 1884.	Signal corps, 2d brig., 4 June, 1880; 2d, 24 June, 1889; 3d, 24 June, 1890; 1st sgt.	Charlestown.						
Henry W. Sprague, Boston, April 20, 1891.									
Arthur W. Clark, Boston, Nov. 9, 1889.	8th regt., M, priv., corp., sgt., 1st battl. art'y hoop. sgt., 1879 to June 20, 1886; surg., 20 June, 1888; res., 17 July, 1889; 2d amb. corps, 2d brig., 15 Aug., 1889; priv.		Lawrence,						Granville Military Academy, N. Y., 3 years; Harvard Medical School, 4 years.
<i>Signal Officer.</i>									
<i>Ambulance Officer.</i>									
Colonel.									
William A. Bancroft, Cambridge, Feb. 7, 1882.	6th regt., K, 14 June, 1875; corp., 28 Aug., 1876; sgt., B, 9 April, 1877; 2d lt., 16 April, 1877; 1st lt., 2 Sept., 1878; capt., 31 March, 1879.		Groton.						
Lieutenant Colonel.									
George F. Frost, Waltham, Jan. 30, 1880.	6th regt., F, 2d lt., 9 July, 1874; 1st lt., 21 Jan., 1876; capt., 13 Dec., 1877; maj., 28 Feb., 1879.		Watertown.						
Majors.									
Josephus H. Whitney, Medford, April 18, 1884.	Priv., corp., sgt., 1st sgt., E, 6th regt., 1880; 2d lt., Jan., 1887; 1st lt., 24 Feb., 1876; capt., 24 Jan., 1876; res., 3 Aug., 1881; 1st lt., 22 June, 1882.		Avon, Me.						
George H. Benyon, Watertown, July 21, 1888.	6th regt., C, 16 April, 1879; priv., corp., 2d lt., 12 Dec., 1881; 1st lt., 1 Sept., 1884; capt., 26 April, 1887; adjt., 15 Sept., 1887.		Brighton.						
Wm. H. Oakes, Charlestown, Jan. 80, 1889.	6th regt., A, priv., corp., sgt., 20 Sept., 1876; 2d lt., 8 Jan., 1883; capt., 22 June, 1886.		Cohasset.						

Fifth Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Adjutant, rank 1st Lt.</i> Harry P. Ballard, Malden, Oct. 19, 1888.	2d corps cadets, 1st, 26 Sept., 1873; dis., 26 Sept., 1876; 2d, 26 Sept., 1876; dis., 26 Sept., 1876; priv., corp., 8th regt., capt., co. I, 6 July, 1883; res., 22 Jan., 1886.	.	Salem.	
<i>Quartermaster, rank 1st Lt.</i> Frederick P. Barnes, Newton, Feb. 20, 1882.	N. E. guards, 35th unatt. co. inf., 1st sgt., 18 Nov., 1864; co. assgd. to 2d regt., E. 22 March, 1865; dis., 6 Nov., 1865; 2d regt., quar. mas. sgt., 14 Sept., 1866; regt. disbanded, 29 June, 1867; 1st regt., 1st lt., L, 10 Oct., 1870; res., 30 June, 1873.	.	Boston.	
<i>Surgeon, rank Major.</i> Charles C. Foster, Cambridge, March 25, 1889.	1st corps cadets, 11 March, 1886; asst. surg., 5th regt., 27 April, 1887.	.	Cambridge.	Harvard University, 1880; Cambridge Hospital, 1886.
<i>Asst. Surgeon, rank 1st Lt.</i> H. Lincoln Chase, Brookline, July 25, 1889.	1st battl. art'y, 10 July, 1887; hosp. stew., asst. surg., 26 July, 1889.	.	Newton Centre,	Harvard University.
<i>Paymaster, rank 1st Lt.</i> Albert O. Warren, Newton, Dec. 27, 1889.	1st regt., L and C, Feb., 1871; dis., Feb., 1874; 2d 5th regt., C, 11 Jan., 1879; dis., 11 Jan., 1883; 3d, 11 Jan., 1883; dis., 23 Oct., 1883, corp., sgt.; 4th, quar. mas. sgt., 30 July, 1883.	.	St. Louis, Mo.,	Union Hall Academy, N. Y.; Institute Technology.
<i>Insp. Rifle Practice, rank 1st Lt.</i> Robert B. Eden, Newton, Aug. 17, 1886.	1st regt., L and C, 1st battl. 5th regt., C, priv., corp., 18 July, 1871; to 16 Jan., 1879; 2d lt., F, 26 July, 1883; 1st lt., 9 July, 1884.	.	Charlestown,	Bigelow School, Newton; English High, Boston.

<i>Chaplain.</i> Samuel J. Barrows, Boston, Oct. 6, 1892.							New York, N. Y.
COMPANY A — Boston.							
<i>Captain.</i> Willis W. Stover, Charlestown, Nov. 17, 1890.	5th regt., A, 28 June, 1896; corp., sgt., 2d lt., 31 March, 1899.						Charlestown.
<i>First Lieutenant.</i> William S. Tolman, Boston, Dec. 10, 1893.	5th regt., A, 30 Oct., 1895; dia., 30 Oct., 1898; 2d, 30 Oct., 1898; priv., corp., sgt., 1st sgt.						Charlestown.
<i>Second Lieutenant.</i> Rowland W. Bray, Charles- town, June 22, 1893.							
COMPANY B — Cambridge.							
<i>Captain.</i> Edward E. Mason, Cambridge, July 10, 1893.	5th regt., B, 12 July, 1898; 2d, 13 July, 1899; 3d, 12 July, 1899; priv., corp., sgt., 2d lt., 16 May, 1891.						Cambridge.
<i>First Lieutenant.</i> William G. Phillips, Dorches- ter, May 18, 1891.	5th regt., B, 9 Nov., 1892; 2d, 9 Nov., 1895; 3d, 9 Nov., 1896; 4th, 9 Nov., 1897; 6th, 9 Nov., 1898; 6th, 9 Nov., 1899; 7th, 9 Nov., 1899; priv., corp., sgt., 1st sgt.						Wenham.
<i>Second Lieutenant.</i> Charles W. Facey, Cambridge, July 10, 1893.	5th regt., B, 10 March, 1890; 2d, March, 1893; priv., corp., sgt.						Cambridge.
COMPANY C — Newton.							
<i>Captain.</i> David C. Scott, Newton Centre, Oct. 17, 1892.	5th regt., C, 10 Nov., 1893; dia., 10 Nov., 1896; 2d, 10 Nov., 1896; dia., 10 Nov., 1897; 3d, 10 Nov., 1897; priv., corp., sgt., 2d lt., 7 May, 1898; 1st lt., 16 Feb., 1899.						York County, New Brunswick.

Fifth Regiment Infantry—Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service, Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>First Lieutenant.</i> Roby S. Cordingley, Newton, Oct. 17, 1892.	5th regt., C, 2 Jan., 1883; dis., 2 Jan., 1886; 2d, 2 Jan., 1886; dis., 2 Jan., 1889; 3d, 2 Jan., 1889; corp., agt., 1st agt., 2d lt., 11 March, 1889.	. . . . .	Boston, . . .	Newton High.
<i>Second Lieutenant.</i> J. Albert Scott, Newton Centre, Nov. 14, 1892.	5th regt., C, 8 July, 1887; 2d, 8 July, 1890; 3d, 8 July, 1891; 4th, 8 July, 1892; priv., corp., agt.	. . . . .	St. John, New Brunswick.	
COMPANY D—Plymouth. <i>Captain.</i> Willard C. Butler, Plymouth, May 16, 1892.	1st regt., H, 14 March, 1881, to 25 May, 1888; 2d lt., 20 Feb., 1891.	. . . . .	Kington.	
<i>First Lieutenant.</i> Arthur W. Harlow, Plymouth, May 16, 1892.	5th regt., D, 16 July, 1888; 2d, 16 July, 1891; corp., agt., 1st agt.	. . . . .	Plymouth.	
<i>Second Lieutenant.</i> Edwin A. Dunton, Plymouth, June 13, 1892.	5th regt., D, 27 Jan., 1890; corp., agt., 2d lt., 16 May, 1892; dis., 26 May, 1892.	. . . . .	Plymouth.	
COMPANY E—Medford. <i>Captain.</i> Thomas C. Henderson, Medford, Feb. 11, 1893.	5th regt., B, priv., corp., agt., 10 Jan., 1874, to 12 March, 1877; 1st lt., 17 March, 1877; cap., 20 Feb., 1882; re-enl., 12 Feb., 1883; agt., 19 May, 1884; maj., 1 June, 1888; dis., 8 June, 1888.	. . . . .	England.	

<i>First Lieutenant.</i> John U. Wescott, West Med- ford, March 23, 1891.	5th regt., E, 24 Nov., 1884; dis., 24 Nov., 1887; sd., 28 Jan., 1888; dis., 28 Jan., 1889; sd., 14 March, 1889; dis., 14 March, 1890; 4th, 14 March, 1890; priv., corp., sgt., 1st sgt., 2d lt., 20 Nov., 1890.	.	.	.	.	.	.	.	Patton, Me.
<i>Second Lieutenant.</i> George E. Lowe, Medford, Dec. 12, 1892.	5th regt., E, 13 June, 1887; sd., 13 June, 1890; sd., 13 June, 1892; priv., corp., sgt., 1st sgt.	.	.	.	.	.	.	.	Stoneham.
COMPANY F—Waltham. <i>Captain.</i> Murray D. Clement, Waltham, May 11, 1891.	.	.	.	.	.	.	.	.	Barnet, Vt.
<i>First Lieutenant.</i> Clifford E. Hamilton, Waltham, Aug. 7, 1893.	6th regt., A, 6 Sept., 1892, to 7 Dec., 1894; sd., 5th regt., F, 30 Oct., 1897, to 8 July, 1898; sd., 7 Oct., 1892; corp.	Portland Cadets, Me. V. M., 1894- 1899; corp.	.	.	.	.	.	.	Portland, Me.
<i>Second Lieutenant.</i> William E. Whiting, Waltham, May 8, 1893.	5th regt., C and F, 2 March, 1893; dis., 2 March, 1893; sd., 12 April, 1893; 2d lt., 11 March, 1899; res., 6 Aug., 1899; sd., 6 Oct., 1891; dis., 10 March, 1892; 4th, 16 July, 1892; priv., corp., sgt.	.	.	.	.	.	.	.	Charlestown.
COMPANY G—Woburn. <i>Captain.</i> Joseph O. Larock, Woburn, Oct. 17, 1892.	5th regt., G, 6 May, 1881; dis., 6 May, 1894; sd., 6 May, 1894; dis., 6 May, 1898; sd., 6 May, 1899; dis., 6 May, 1899; 4th, 6 May, 1899; priv., corp., sgt., 1st sgt., 2d lt., 24 April, 1891; 1st lt., 18 June, 1891.	.	.	.	.	.	.	.	Bakersfield, Vt.
<i>First Lieutenant.</i> Edward F. Weyer, Woburn, Dec. 12, 1892.	5th regt., G, 31 Jan., 1889; 2d, 31 Jan., 1892; 2d lt., 17 Oct., 1892.	.	.	.	.	.	.	.	Woburn.
<i>Second Lieutenant.</i> William W. Wade, Woburn, Dec. 12, 1892.	5th regt., G, 11 June, 1892.	.	.	.	.	.	.	.	Woburn. Woburn High.

Fifth Regiment Infantry—Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
COMPANY H—Boston.				
<i>Captain.</i> Francis Meredith, Jr., Charlestown, July 16, 1892.	6th regt., A, 16 Nov., 1890; dis., 16 Nov., 1890; priv., corp., sgt.; 2d, 9 Dec., 1890; 2d lt., H, 25 Jan., 1890; 1st lt., 24 Nov., 1890.	. . . . .	Birmingham, Eng.	
<i>First Lieutenant.</i> Fred McDonald, Charlestown, July 16, 1892.	1st batt. cav., A, 18 Oct., 1887; dis., 18 Oct., 1890; 2d lt., 26 Nov., 1890.	. . . . .	Charlestown.	
<i>Second Lieutenant.</i> Henry Y. Gilson, Somerville, Aug. 11, 1892.	5th regt., H, 20 July, 1891; priv., corp., sgt., . . . . .	. . . . .	Somerville.	
COMPANY I—Attleborough.				
<i>Captain.</i> William H. Goff, Attleborough, Nov. 18, 1887.	. . . . .	24th M. V. H, 21 Oct., 1891; re-enlisted 4 Jan., 1894; mus. out, 20 Jan., 1896; corp., sgt.	Rehoboth.	
<i>First Lieutenant.</i> Herbert A. Clark, Attleborough, April 25, 1892.	6th regt., I, 18 Nov., 1887, sgt.; 2d lt., 14 Feb., 1890, . . . . .	. . . . .	Middleborough.	
<i>Second Lieutenant.</i> George H. Sykes, Attleborough, April 25, 1892.	5th regt., I, 18 Nov., 1887; 2d, 18 Nov., 1890; sd, 18 Nov., 1891, corp., sgt., 1st sgt.	. . . . .	Ashton, England.	

Fifth Regiment Infantry — Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>First Lieutenant.</i> William M. Prest, Hudson, Nov. 6, 1863.	. . . . .	. . . . .	Blackburn, Eng.	
<i>Second Lieutenant.</i> Charles F. Reed, Hudson, June 30, 1863.	6th regt., M., 1 Dec., 1861, priv., corp., . . . . .	. . . . .	Northfield, Minn.	

EIGHTH REGIMENT INFANTRY.

<i>Colonel.</i> Charles L. Dodge, Beverly, Oct. 6, 1863.	2d unatt. inf., 1st regt., 1845; 8th regt., 2d lt., E, 3 June, 1863; 1st lt., 24 July, 1874; capt., 20 April, 1877; comd. regt., 11 Jan., 1881, declined sup. and court; re-elected 20 April, 1882; maj., 10 May, 1883; lt. col., 10 June, 1890.	. . . . .	Salem.	
<i>Lieutenant Colonel.</i> Eben T. Brackett, Lynn, Oct. 6, 1863.	11th unatt. co. inf., April, 1865; 8th regt., I, 1 Sept., 1872; corp. maj., 14 July, 1873; agt., 4 Aug., 1875; dia., 14 July, 1876; 7th bat., I, 4 Aug., 1876; 1st agt., 4 June, 1877; dia., 4 Aug., 1879; 8th regt., I, 4 Aug., 1879; 2d lt., 24 Feb., 1882; capt., 11 April, 1883.	. . . . .	Charlestown.	
<i>Majors.</i> Winsor M. Ward, Wakefield, June 15, 1863.	7th regt., B, 1863 to 1866; priv., 1st lt., K, 8th regt., 24 Oct., 1866; capt., 21 April, 1871; res., 19 March, 1877; capt., 27 Nov., 1886.	2d co. sharpshooters, M. V., 19 Sept., 1861; dia., 19 May, 1863; corp. agt., 1st lt., 19 May, 1863; dia., 21 Sept., 1864.	Peabody.	

William A. Pow, Jr., Gloucester, June 10, 1890.	8th regt., G, 28 March, 1893; 2d lt., 3 Aug., 1893; 1st lt., 10 June, 1895; dis., 2 Dec., 1895; disbandment of co., capt., 18 Feb., 1896.	.	.	.	.	.	.	.	East Pittston, Me.,	Boston High.
Edward W. M. Bailey, Amesbury, Oct. 6, 1893.	8th regt., B, capt., 21 Nov., 1897.	.	.	.	.	.	.	.	.	.
<i>Adjutant, rank 1st Lt.</i> George L. Well, No. Andover, April 27, 1892.	8th regt., M, 6 Sept., 1891; dis., 28 April, 1893; 1st lt., C, 2 April, 1898; res., 3 April, 1891.	.	.	.	.	.	.	.	North Andover,	Bowdoin College, Me.
<i>Quartermaster, rank 1st Lt.</i> George A. D. Stickney, Salem, Nov. 16, 1893.		.	.	.	.	.	.	.	.	.
<i>Surgeon, rank Major.</i> (Vacancy.)		.	.	.	.	.	.	.	.	.
<i>Asst. Surgeon, rank 1st Lt.</i> (Vacancy.)		.	.	.	.	.	.	.	.	.
<i>Paymaster, rank 1st Lt.</i> Edward G. Moody, Newburyport, Nov. 16, 1893.	8th regt., A, 12 Dec., 1893; priv., 1st ser., 1st ser., dis., exp., 12 Dec., 1891; 2d, 11 July, 1892; 1st lt., 1 Aug., 1892.	.	.	.	.	.	.	.	Newburyport.	
<i>Inspector Rifle Practice, rank 1st Lt.</i> Charles F. Cook, Everett, Dec. 17, 1892.	8th regt., L, 19 April, 1896; co. trans. to 6th regt., as L, 28 March, 1898; corp., trans. to 1st batt. cav., A, 23 June, 1898; 2d, 19 April, 1899; trans. to N. C. S., 3d inf'y, 8d, 19 April, 1892.	.	.	.	.	.	.	.	Weare, N. H.	
<i>Chaplain.</i> George D. Sanders, Gloucester, May 21, 1891.	.	.	.	.	.	.	.	.	Patton, Me.	
COMPANY A — Newburyport.		.	.	.	.	.	.	.	.	.
<i>Captain.</i> John H. Glinan, Newburyport, Aug. 1, 1892.	8th regt., A, 12 Dec., 1893; 1st lt., 12 Dec., 1893.	.	.	.	.	.	.	.	Hvy. art'y, K, N. H. N. G., 5 years, priv.	Dover, N. H.

Eighth Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>First Lieutenant.</i> (Vacancy.)				
<i>Second Lieutenant.</i> Alexander G. Perkins, Newburyport, Nov. 18, 1892.	8th regt., A, 12 Dec., 1888; corp., quar. mas. sgt., 2 July, 1891; 2d, 12 Dec., 1891.	.	Newburyport.	
COMPANY B — Amesbury.				
<i>Captain.</i> Allison E. Tuttle, Amesbury, Nov. 13, 1893.	8th regt., B, 2d lt., 26 June, 1893, . . . . .	.	Stafford, N. H.	
<i>First Lieutenant.</i> John E. Higgins, Amesbury, June 26, 1893.	8th regt., B, 21 Nov., 1887; 2d, 21 Nov., 1890; 3d, 21 Nov., 1891; sgt., 1st sgt., 2d lt., 11 April, 1892.	.	Foxcroft, Me.	
<i>Second Lieutenant.</i> (Vacancy.)				
COMPANY C — Marblehead.				
<i>Captain.</i> Frank A. Graves, Marblehead, July 3, 1893.	8th regt., C, 14 Aug., 1883; dis., 14 Aug., 1886; 2d, 14 Aug., 1886; dis., 14 Aug., 1887; 3d, 9 Sept., 1887; dis., 9 Sept., 1888; 4th, 9 Sept., 1888; priv., corp., sgt., 1st sgt., 1st lt., 30 Aug., 1889.	.	Marblehead.	
<i>First Lieutenant.</i> Charles H. Snow, Marblehead, July 3, 1893.	8th regt., C, 14 Aug., 1883; dis., 14 Aug., 1886; 2d, 14 Aug., 1886; dis., 14 Aug., 1887; 3d, 12 Dec., 1887; dis., 12 Dec., 1888; 4th, 12 Dec., 1888; priv., corp., sgt.; 2d lt., 30 Aug., 1889.	.	Marblehead.	

Eighth Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
COMPANY F — Haverhill.				
<i>Captain.</i> William C. Dow, Haverhill, March 14, 1863.	8th regt., F, 6 July, 1863; dis., 6 July, 1863; 2d, 6 July, 1863; priv., corp., 1st agt., 1st lt., 13 May, 1866.	. . . . .	Haverhill.	
<i>First Lieutenant.</i> Willmot U. Mace, Haverhill, March 14, 1863.	8th regt., F, 26 June, 1863; dis., exp., corp., 1st agt., 2d lt., 10 Feb., 1861.	. . . . .	Eye, N. H.	
<i>Second Lieutenant.</i> Thomas F. Crowley, Haverhill, May 9, 1863.	8th regt., F, 26 June, 1863, to 9 May, 1863; priv., corp., agt.	. . . . .	Bradford.	
COMPANY G — Gloucester.				
<i>Captain.</i> Richard P. O'Reilly, Gloucester, June 30, 1860	8th regt., G, 14 June, 1863; dis., 10 June, 1863; 2d lt., 10 June, 1863; dis., 2 Dec., 1866; disbandment of co.; 1st lt., 18 Feb., 1866.	. . . . .	Wareham.	
<i>First Lieutenant.</i> William J. Crawley, Jr., Gloucester, June 30, 1860.	8th regt., G, 1864; priv., corp., agt., dis., 2 Dec., 1865; disbandment of co.; 2d, 18 Feb., 1866; 2d lt., 12 April, 1866.	. . . . .	Boston.	
<i>Second Lieutenant.</i> Francis C. Noyes, Gloucester, May, 1863.	8th regt., G, 18 April, 1861, to 18 April, 1864; 2d, 26 Sept., 1864, to 12 Feb., 1866; 3d, 6 July, 1866, to 2 Dec., 1866; disbandment of co.; 4th, 18 Feb., 1866, to 18 Feb., 1866; 5th, 18 Feb., 1866, to 18 Feb., 1866; 20 Feb., 1866; 2d lt., 20.	. . . . .	Gloucester.	

Eighth Regiment Infantry—Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>First Lieutenant.</i> Fred U. French, Danvers, April 11, 1892.	2d lt., 7 April, 1891, . . . . .	. . . . .	Deerfield Centre, N. H.	
<i>Second Lieutenant.</i> A. Preston Chase, Danvers, May 16, 1892.	8th regt., K, 25 March, 1891, . . . . .	. . . . .	Danvers.	
COMPANY L.—North Andover.				
<i>Captain.</i> Frank A. Coan, North Andover, March 16, 1892.	6th regt., K, 1875 to 1878; 2d, 8th regt., L, 2 April, 1889; 1st Sgt., 2d lt., 18 Dec., 1889; 1st lt., 6 Feb., 1892.	. . . . .	Tobyhanna, Pa.	
<i>First Lieutenant.</i> James Forbes, North Andover, March 16, 1893.	8th regt., L, 2 April, 1889; priv., corp., 2d lt., 10 May, 1893.	. . . . .	.
<i>Second Lieutenant.</i> Thomas J. Lawless, Jr., North Andover, March 16, 1893.	8th regt., L, 2 April, 1883, to 16 March, 1893; priv., corp., Sgt.	. . . . .	North Andover.	
COMPANY M.—Somerville.				
<i>Captain.</i> Horace M. Parsons, Somerville, Oct. 12, 1891.	9th regt., M, 3 June, 1886; 2d lt., 16 May, 1890; 1st lt., 12 June, 1890.	. . . . .	Rockport.	
<i>First Lieutenant.</i> James Forbes, North Andover, March 16, 1893.	8th regt., L, 2 April, 1889; 2d lt., 10 May, 1892, . . . . .	. . . . .	Aberdeenshire, Scotland.	

<i>Second Lieutenant.</i> George L. Marshall, Somersville, Oct. 12, 1891.	1st regt., B, 13 Feb., 1888; trans. to M, 8th regt., 7 June, 1890; 2d, 1st regt., K, 13 March, 1891; trans. to headquarters, 6 April, 1891.	. . . . .	Gloucester.
NINTH REGIMENT INFANTRY.			
<i>Colonel.</i> Frederick B. Bogan, Boston Jan. 3, 1893.	6th regt., D, 7 July, 1890; 2d lt., 30 March, 1871; capt., 4 March, 1872; maj., 9th regt., 19 Jan., 1893; col., A. I. G., staff com.-in-chief, 13 Jan., 1892.	. . . . .	Boston.
<i>Lieutenant Colonel.</i> Lawrence J. Logan, Boston, Nov. 6, 1890.	9th regt., 1st lt., D, 23 April, 1865; capt., 2 April, 1869, maj., 4 March, 1872; dis., 23 April, 1876; lt. col., 20 Jan., 1879; res., 10 July, 1880.	. . . . .	Ireland.
<i>Major.</i> Patrick J. Grady, Boston, April 8, 1891.	9th regt., 2d lt., H, 5 April, 1877; 1st lt., 4 Jan., 1878, capt., 7 March, 1879.	. . . . .	County Clare, Ire- land.
William H. Donovan, Lawrence, June 27, 1888.	6th regt., I, May, 1871; corp., 2d lt., 25 June, 1877; 1st lt., 11 Aug., 1879; capt., 23 June, 1884.	. . . . .	Pennsylvania.
Michael J. O'Connor, South Boston, March 30, 1892.	9th regt., I, 6 Jan., 1888; priv., 1st lt., 6 Jan., 1888; adjt., 20 July, 1889.	. . . . .	Boston High.
<i>Adjutant, rank 1st Lt.</i> Joseph J. Kelley, South Boston, April 16, 1892.	Amb. corps, 2d brig., 27 May, 1887; priv., trans. to I, 9th regt., 20 Feb., 1888; corp., 1st lt., 10 Sept., 1889; capt., 6 July, 1891.	. . . . .	Boston.
<i>Quartermaster, rank 1st Lt.</i> James H. Nugent, Boston, July 16, 1893.	1st regt., 1857-60, 1860-71; 9th regt., C, 16 April, 1876; 2d lt., 14 June, 1875; 1st lt., 21 July, 1876; dis., 6 Sept., 1879; 2d lt., 6 Dec., 1880.	1st Mass. vols., D, 24 May, 1861; dis., 30 Nov., 1862.	Boston.
<i>Sergeant, rank Major.</i> William H. Devine, South Bos- ton, May 1, 1888.	9th regt., asst. surg., 16 July, 1888; surg., 1 March, 1894; res., 7 Feb., 1897.	. . . . .	Boston, High and Latin; Harvard.

Ninth Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Asst. Surgeon, rank 1st Lt.</i> Dennis F. O'Callaghan, South Boston, June 15, 1888.				
<i>Paymaster, rank 1st Lt.</i> Henry Dobbins, Boston, Feb. 12, 1891.	. . . . .	. . . . .	Lowell.	
<i>Inspector Rifle Practice, rank 1st Lt.</i> John Breen, Lawrence, June 21, 1888.	. . . . .	. . . . .	Tipperary, Ireland.	
<i>Chaplain.</i> James Lee, Boston, July 1, 1884.	. . . . .	. . . . .	County Cork, Ireland.	Boston Latin, 2 years.
COMPANY A — Boston.				
<i>Captain.</i> Daniel J. Keefe, Somerville, Sept. 17, 1889.	6th regt., B, 20 March, 1876; co. disbanded, 6 July, 1876; 6th regt., A, 12 Feb. 1878; sgt., dis., 12 Feb., 1881; 2d, 23 March, 1881; dis., 23 March, 1882; 3d, 7 June, 1882; 1st lt., 16 Aug., 1882; capt., 23 April, 1884; res., 16 June, 1885; capt., 24 Nov., 1885; res., 14 Sept., 1888.	. . . . .	Somerville.	
<i>First Lieutenant.</i> George M. Rogers, Boston, July 10, 1888.	9th regt., A, 8 July, 1888; 2d, 20 July, 1891; corp., sgt., 1st sgt.; 2d lt., 31 Aug., 1891.	. . . . .	Boston.	

Ninth Regiment Infantry — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>First Lieutenant.</i> David M. Crouy, Charlestown, Feb. 5, 1891.	9th regt., G, 2 years, 7 months; D, 17 May, 1888; 2d lt., 12 May, 1890.	. . . . .	Charlestown.	
<i>Second Lieutenant.</i> John B. Carey, jr., Charlestown, Feb. 5, 1891.	9th regt., D, 1 March, 1888; dis., exp., 1 March, 1891; priv., corp., agt.	. . . . .	Charlestown.	
COMPANY E — Boston. <i>Captain.</i> Jeremiah G. Fenneway, Boston, Aug. 1, 1890.	9th regt., I, 4 Aug., 1874; co. disbanded, 6 July, 1876; 2d, E, 12 Sept., 1876; dis., 12 Sept., 1879; 3d, 12 Sept., 1879; dis., 12 Sept., 1880; 4th, 2 June, 1880; dis., 2 June, 1881; 1st lt., 13 May, 1889.	. . . . .	Glanworth, Ire.	
<i>First Lieutenant.</i> John J. Sullivan, Boston, Aug. 1, 1890.	. . . . .	. . . . .	Boston,	Boston High.
<i>Second Lieutenant.</i> (Vacancy.) COMPANY F — Lawrence. <i>Captain.</i> Joseph H. Joubert, Lawrence, May 6, 1890.	9th regt., F, 23 June, 1881; 2d, 23 June, 1884; corp., agt., 1st agt., 2d lt., 26 July, 1886; 1st lt., 14 Aug., 1889.	. . . . .	Yellow Springs, Ohio.	
<i>First Lieutenant.</i> Patrick A. Sands, Lawrence, May 6, 1890.				

<i>Second Lieutenant.</i> Michael S. Boies, Lawrence, Feb. 13, 1891.	. . . . .	. . . . .	. . . . .	. . . . .	20 years R. I. militia; priv., corp., Sgt., 2d lt., 1st lt., capt.	Ireland.
COMPANY G — Worcester.						
<i>Captain.</i> William Regan, Worcester, May 10, 1887.	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	Ireland.
<i>First Lieutenant.</i> Jeremiah Moynihan, Worcester, June 12, 1883.	9th regt., G, 10 May, 1887, to 12 June, 1893, priv., corp., Sgt.				. . . . .	Ireland.
<i>Second Lieutenant.</i> Matthew E. Hines, Worcester, July 22, 1893.	9th regt., 10 May, 1887, to 23 Aug., 1893,	. . . . .			. . . . .	Falls Village, Conn.
COMPANY H — Boston.						
<i>Captain.</i> John J. Hayes, Boston, Feb. 11, 1890.	9th regt., H, 2 May, 1883; 2d, 26 June, 1886; priv., Sgt., 1st Sgt., 2d lt., 23 Sept., 1886; 1st lt., 17 Feb., 1888.				. . . . .	Boston.
<i>First Lieutenant.</i> Benjamin J. Fianigan, Cam- bridge, Feb. 11, 1890.	9th regt., H, 11 Dec., 1883; dis., 11 Dec., 1886; 2d, 11 Dec., 1886; dis., 11 Dec., 1887; 3d, 9 Jan., 1888; priv., corp., Sgt., 1st Sgt., 2d lt., 17 Feb., 1888.				. . . . .	New York, N. Y.
<i>Second Lieutenant.</i> (Vacancy.)						
COMPANY I — South Boston.						
<i>Captain.</i> Lewis A. Dowd, South Boston, May 16, 1892.	9th regt., I, 6 Jan., 1888; priv., corp., Sgt., 2d lt., 16 Sept., 1886; 1st lt., 6 July, 1891.				. . . . .	Boston.

Ninth Regiment Infantry — Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>First Lieutenant.</i> John H. Dunn, South Boston, May 16, 1892.	2d lt., 6 July, 1891.			
<i>Second Lieutenant.</i> William J. Casey, Boston, May 16, 1892.	9th regt., I, 25 Feb., 1899; 2d, 26 Feb., 1892; priv., corp., sgt.	. . . . .	South Boston.	
COMPANY K — Clinton.				
<i>Captain.</i> William F. Shaugnessy, Clinton, March 23, 1891.	6th regt., K, 2d lt., 7 Dec., 1885; 1st lt., 23 March, 1888,	. . . . .	Bolton.	
<i>First Lieutenant.</i> Peter J. Cannon, Clinton, March 23, 1891.	6th regt., K, 7 Dec., 1885; co. trans. to 9th regt., 26 March, 1888; 2d, 7 Dec., 1888; 3d, 7 Dec., 1889; priv., sgt., 1st sgt.	. . . . .	Ireland.	
<i>Second Lieutenant.</i> John B. Gallagher, Clinton, March 23, 1891.	6th regt., K, 3 June, 1887; co. trans. to 9th regt., 26 March, 1888; sgt.	. . . . .	Clinton.	
COMPANY L — Natick.				
<i>Captain.</i> Michael E. Morris, Natick, Nov. 27, 1893.	1st regt., G, 8 June, 1886; co. trans. to 9th regt., as co. L, 16 March, 1888; 2d, 8 June, 1889; 3d, 8 June, 1890; 4th, 8 June, 1891; priv., corp., sgt., 2d lt., 9 May, 1892.	. . . . .	Natick.	
<i>First Lieutenant.</i> Daniel J. Murphy, Natick, Nov. 27, 1893.	1st regt., G, 9th regt., L, 3 June, 1887, to 27 Nov., 1893; sgt.	. . . . .	Ireland.	

<i>Second Lieutenant.</i> Philip Connealy, Natick, Nov. 27, 1893.	1st regt., G, 9th regt., L, 6 Jan., 1887, to 27 Nov., 1893; priv.	. . . . .	Boston.
<i>COMPANY M — Lowell.</i>			
<i>Captain.</i> Anthony D. Mitten, Lowell, June 11, 1891.	6th regt., C, 1 Jan., 1877; dis., 27 Aug., 1880; 2d 11 Oct., 1882; dis., 6 June, 1885; priv., corp., 3d 3 March, 1886; dis., 5 May, 1887; 2d lt., 2 April, 1888.	. . . . .	Fitchburg.
<i>First Lieutenant.</i> John Ganley, Lowell, June 11, 1891.	6th regt., cos. D and H, 8 years; 2d, 9th regt., M, 2 April, 1891; 2d lt., 7 May, 1891.	. . . . .	Lowell.
<i>Second Lieutenant.</i> Philip McNulty, Lowell, May 4, 1893.			

LIGHT ARTILLERY.

<i>BATTERY A — Boston.</i> <i>Captain.</i> Dexter H. Follett, Boston, Dec. 23, 1893.	Boston 1st inf., 20 July, 1851; 1st regt. inf., D, 4th lt., Boston, 1st guard, 15 June, 1852; 1st lt., 29 March, 1853; dis., 19 Sept., 1853; re-elected, 25 Oct., 1853; capt., 21 March, 1854; dis., 4 Jan., 1855; Boston 1st art'y, adlt., 21 Feb., 1859; dis., June, 1860; re-app., 18 June, 1860; dis., 26 Dec. 1860; re-app., 1 Jan., 1861; maj., 1st battl. 1st art'y, 4 Dec., 1871; dis., 28 April, 1876; app. maj., 1st battl. cav., 3 Aug., 1876; dis., 3 Jan., 1882.	3d batt'y Mass. vola, capt., 5 Sept., 1891; dis., 27 Nov., 1891.	Boston.
<i>First Lieutenant.</i> Wm. H. Ruddick, South Boston, June 7, 1887.	2d lt., 8 July, 1886,	7th batt'y, M. V., 3 May, 1892; dis., 2 May, 1895.	Moncton, N. B.

Light Artillery — Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
William F. Hall, Boston, March 8, 1890.	1st lt., batt'y, priv., corp., egt., 1st egt., 1st cav., D, priv., quar. mas. egt., 1st lt., 1st lgt. batt'y, 14 Dec., 1866; res., 17 July, 1868; adjt., 11 July, 1870; res., 29 May, 1871.	11th batt'y, M. V., 1862 to May, 1863.	Boston.	
<i>Second Lieutenant.</i> John E. Brayman, Boston, May 21, 1888.	1st battl. art'y, A, 13 June, 1883; dia., 13 June, 1886; 2d, 30 June, 1886; priv., corp., 1st egt.	. . . . .	Boston.	
William P. Davis, Cambridge, June 29, 1891.	5th regt., B, 10 March, 1884; 2d, 11 March, 1887; trans. to batt'y A, 22 April, 1887; 3d, 9 April, 1888; 4th, 19 April, 1889; 6th, 2 June, 1890; 6th, 15 June, 1891.	. . . . .	Cambridge.	

FIRST BATTALION CAVALRY.

<i>Major.</i> Horace G. Kemp, Boston, March 25, 1884.	1st battl. cav., A, 1st, 3 Aug., 1875; 2d, 27 Aug., 1878; egt., 24 Dec., 1878; 2d lt., 18 Nov., 1879; 1st lt., 24 Jan., 1881; capt., 24 June, 1883.	. . . . .	Cambridgeport.	
<i>Adjutant, rank 1st Lt.</i> Frank L. Locke, Boston, Jan. 14, 1889.	1st battl. cav., D, 4 March, 1885; egt., 20 June, 1885; egt. maj., 19 July, 1887.	. . . . .	Boston.	English High Institute Tech.
<i>Quartermaster, rank 1st Lt.</i> Sullivan B. Newton, Boston, Jan. 31, 1892.	1st battl. cav., A, 24 June, 1873; co. quar. mas. egt., 30 March, 1874; dia., 24 June, 1876; 2d, 27 Nov., 1877; dia., 27 Nov., 1880; 3d, 21 Dec., 1880; dia., 21 Dec., 1881.	. . . . .	Southborough.	
<i>Surgeon, rank Major.</i> Charles H. Cogswell, Boston, Dec. 8, 1887.	1st battl. cav., asst. surg., 5 July, 1887,	South Bridgewater.	

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First Battalion Cavalry — Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
COMPANY D — Boston.				
<i>Captain.</i> George F. Henderson, Chelsea, Dec. 23, 1892.	1st regt., H; batt'y B, art'y; 1st battl. cav.; D, 1st lt., 12 June, 1883; res., 13 Sept., 1886; 1st lt., 2 March, 1887.	25th Me. vols., H, 10 Sept., 1862, to 11 July, 1863; 61st M. V., H, 5 Jan., 1864; dis., 16 July, 1866; sgt.	Sommerworth, Me.	
<i>First Lieutenant.</i> William A. Perrins, Boston, Dec. 23, 1892.	1st battl. cav., D, 21 April, 1884; 2d, 21 April, 1887; 3d, 6 Feb., 1891; res., 2d lt., 6 March, 1891; res., 21 Nov., 1892.	. . . . .	Birmingham, Eng.	
<i>Second Lieutenant.</i> John Perrins, Jr., Boston, Dec. 23, 1892.	1st battl. cav., D, 25 Aug., 1883; 2d, 27 Sept., 1886; priv., corp., sgt., 1st sgt.	. . . . .	England.	

FIRST CORPS OF CADETS — Boston.

<i>Lieutenant Colonel.</i> Thomas F. Edmunds, Boston, Oct. 14, 1873.	4th battl. B (N. E. guards), 1861; adjt., 1st corps cadets, 29 Sept., 1866; maj., 18 March, 1873; lt. col., 14 Oct., 1873; dis., 28 April, 1876; re-elected, 29 April, 1876; com. vacated, 11 Jan., 1882, decision sup. jud. court; re-elected, 13 Jan., 1882.	24th Mass. vols., 2d lt., 2 Sept., 1861; 1st lt., 27 Aug., 1862; adjt., 17 May, 1864; capt., 16 June, 1864; maj., 16 Nov., 1864; lt. col., 7 May, 1866; mus. out, 20 Jan., 1869; bvt. col. U. S. vols.	Boston.	
<i>Major.</i> George R. Rogers, Brookline, May 20, 1883.	1st corps cadets, 23 April, 1870; corp., 28 July, 1872; sgt., 12 Nov., 1872; sgt. maj., 27 March, 1873; mus. in, 14 June, 1873; 1st lt., 12 Jan., 1874; capt., 21 Jan., 1876.	44th M. V. M., priv., C, 12 Sept., 1862; dis., 18 June, 1868.	Boston.	

<i>Adjutant, rank 1st Lt.</i> James E. Hill, Boston, March 26, 1883.	1st corps cadets, 24 Dec., 1873; corp., 4 March, 1875; sgt., 3 June, 1875; 1st sgt., 8 March, 1877; sgt. maj., 11 July, 1879; 1st lt., 18 July, 1879.	. . . . .	. . . . .	West Roxbury,	English High.
<i>Quartermaster, rank 1st Lt.</i> Charles C. Neicher, Hingham, Feb. 4, 1873.	1st corps cadets, 10 April, 1867; corp., 18 May, 1869; quar. mas. sgt., 1872; mus. in, 14 June, 1873; quar. mas., 9 Feb., 1875; dis., 23 April, 1876; re-app., 29 April, 1876; com. vacated, 11 Jan., 1882, decision sup. jud. court; re-app., 13 Jan., 1882.	Priv., N. H. militia,	. . . . .	Portsmouth, N. H.	
<i>Surgeon, rank Major.</i> William L. Richardson, Boston, Nov. 6, 1875.	1st corps cadets, 1 March, 1864; corp., 12 Dec., 1865; hosp. stew., 4 Sept., 1871; surg., 6 Nov., 1876; dis., 23 April, 1876; re-app., 29 April, 1876; com. vacated, 11 Jan., 1882, decision sup. jud. court; re-app., 13 Jan., 1882.	. . . . .	. . . . .	Boston,	M. D., Harvard, 1867.
<i>Asst. Surgeon, rank 1st Lt.</i> Charles M. Green, Boston, Aug. 3, 1881.	6th regt., F. Aug., 1870; mus. in, 30 July, 1873; trans. to E., 24 July, 1874; 2d lt., 24 Feb., 1875; 1st lt., 24 Jan., 1876; dis., 29 June, 1877; 1st corps cadets, 30 June, 1877; hosp. stew., 5 July, 1877.	. . . . .	. . . . .	Medford,	Boston Latin; M.D., Harvard, 1877.
<i>Paymaster, rank Captain.</i> Charles E. Stevens, Hingham, Jan. 9, 1874.	1st corps cadets, 7 Aug., 1860; corp., 2 Oct., 1861; sgt., 1862; quar. mas. sgt., 1st lt., quar. mas., 26 Feb., 1863; capt., paymaster, 9 Jan., 1874; dis., 28 April, 1876; re-app., 20 April, 1876; com. vacated, 11 Jan., 1882, decision sup. jud. court; re-app., 13 Jan., 1882.	. . . . .	. . . . .	Boston.	
<i>Inspector Rifle Practice, rank 1st Lt.</i> William A. Hayes, 2d, Cam- bridge, Feb. 7, 1889.	1st corps cadets, 20 Aug., 1872; mus. in, 14 June, 1873; corp., 20 June, 1874; sgt., 1 Jan., 1876; dis., 14 June, 1876; 2d, 14 June, 1876; 1st sgt., 3 July, 1878; dis., 14 June, 1879; 3d, 14 June, 1879; sgt. maj., 19 Feb., 1880; dis., 14 June, 1880; 4th, 14 June, 1880; 1st lt., 16 June, 1880.	. . . . .	. . . . .	Portsmouth, N. H.	
<i>Chaplain.</i> (Vacancy.)		.			

First Corps of Cadets — Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
COMPANY A — Boston.				
<i>Captain.</i> Francis H. Appleton, Peabody, July 19, 1879.	1st corps cadets, 8 Jan., 1870; corp., 12 Dec., 1872; mus. in., 14 Oct., 1873; sgt., 31 Jan., 1874; 1st sgt., sgt. maj., 6 Feb., 1875; 1st lt., 13 July, 1875; adjt., 3 April, 1876; dis., 23 April, 1876; re-app., 23 April, 1876.	.	Boston.	
<i>First Lieutenant.</i> Luther H. Wightman, Boston, Feb. 5, 1889.	1st corps cadets, 2 Sept., 1872; mus. in., 14 June, 1873; corp., 21 May, 1875; sgt., 19 Feb., 1880; 1st sgt., 16 May, 1883; sgt. maj., 12 Sept., 1887.	.	Easton.	
<i>Second Lieutenant.</i> Frank L. Joy, Boston, Jan. 10, 1893.	1st corps cadets, 11 Feb., 1880; corp., 12 Oct., 1890; sgt., 14 March, 1893; 1st sgt., 25 June, 1898; sgt. maj., 22 Dec., 1892.	.	Boston.	English High.
COMPANY B — Boston.				
<i>Captain.</i> William H. Alline, Boston, Aug. 10, 1881.	2d regt., F, 27 March, 1865; sgt., dis., 29 June, 1867; 1st corps cadets, 23 April, 1870; corp., 11 Nov., 1872; mus. in., 14 June, 1873; sgt., 16 Dec., 1873; 1st sgt., 4 March, 1875; sgt. maj., 23 Dec., 1875; 1st lt., 11 April, 1876; adjt., 16 June, 1880.	44th M. V. M., Co. I, 12 Sept., 1893; dis., 18 June, 1893.	Boston.	
<i>First Lieutenant.</i> William B. Clarke, Boston, May 8, 1883.	30th unatt. co., afterwards 2d regt., co. C, priv., corp., sgt., Sept., 1864, to March, 1867; 1st corps cadets, 17 Jan., 1870; corp., 8 July, 1876; sgt., 27 June, 1878; 1st sgt., 23 April, 1881; sgt. maj., 22 May, 1882.	.	Northampton.	
<i>Second Lieutenant.</i> George B. Ager, Jr., Boston, Feb. 14, 1893.	1st regt., K, 11 Oct., 1882, to 14 Nov., 1883; 2d, 1st corps cadets, 12 June, 1884; corp., 11 Dec., 1884; sgt., 26 June, 1886; 1st sgt., 6 April, 1888; sgt. maj., 13 Jan., 1893.	.	West Roxbury.	Roxbury Latin.

COMPANY C—Boston.					
<i>Captain.</i> Andrew Robinson, Brookline, June 6, 1888.	1st corps cadets, 22 March, 1876; corp., 8 May, 1877; sgt., 29 July, 1879; 1st sgt., 6 Oct., 1881; 1st lt., 15 March, 1883.	1st N. Y. engineers, 1st lt., 24 May, 1864; corp., Feb., 1865; bvt. maj., U. S. V., 18 March, 1865.	Fall River.		
<i>First Lieutenant.</i> Walter L. Bourve, Hingham, Feb. 19, 1886.	1st corps cadets, 29 April, 1876; corp., 9 July, 1879; sgt., 15 Sept., 1881; 1st sgt., 9 June, 1883; sgt. maj., 8 Feb., 1886.		Boston.		Institute of Tech- nology.
<i>Second Lieutenant.</i> Richard D. Sears, Nahant, March 14, 1888.	1st corps cadets, 13 June, 1883; corp., 6 July, 1886; sgt., 16 Oct., 1888; 1st sgt., 22 Dec., 1892; sgt. maj., 17 Feb., 1893.		Boston.		
COMPANY D—Boston.					
<i>Captain.</i> Henry B. Rice, Boston, March 13, 1883.	4th battl. inf., 1881-82; 2d regt., D., 1894; corp., sgt., 2d lt., 20 May, 1865; 1st lt., H., 31 Jan., 1866; dis., 20 June, 1867; 1st corps cadets, 13 Oct., 1868; corp., 18 May, 1869; sgt., 11 Nov., 1872; mus. in, 14 July, 1873; 1st sgt., 23 Dec., 1875; dis., 14 July, 1876; 2d, 14 July, 1876; 1st lt., 25 June, 1878; adjt., 16 Aug., 1881.		Boston.		
<i>First Lieutenant.</i> Thomas B. Ticknor, Boston, Aug. 31, 1881.	1st corps cadets, 14 Nov., 1874; corp., 22 April, 1876; sgt., 8 July, 1876; dis., 14 Nov., 1877; 2d, 14 Nov., 1877; dis., 14 Nov., 1878; 3d, 14 Nov., 1879; dis., 14 Nov., 1879; 4th, 14 Nov., 1879; sgt. maj., 16 June, 1880; dis., 14 Nov., 1880; 5th, 14 Nov., 1880.		West Roxbury.		Chauncy Hall, Boston.
<i>Second Lieutenant.</i> Edward E. Currier, Malden, April 11, 1893.	1st light battery, sgt., 15 March, 1864; dis., 30 March, 1865; 2d, 1st lt., Mtl. dist. co., 162, 2 Oct., 1865; G. O. No. 17; 3d, 3d battery, capt., 28 Feb., 1868; res., 24 April, 1871; 4th, capt. and engineer, 2d brig., 15 July, 1882; col. and a. i. g., Mass. militia, res., 7 Jan., 1891; 5th, 1st corps cadets, 8 Jan., 1891; dis., 8 Jan., 1892; 6th, 8 Jan., 1892; dis., 8 Jan., 1893; 7th, 8 Jan., 1893; sgt. maj., 20 March, 1893.	11th Mass. batt'y, priv., 25 Aug., 1862; dis., 25 May, 1863.	Boston.		

First Corps of Cadets — Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
COMPANY A — Boston.				
<i>Captain.</i> Francis H. Appleton, Peabody, July 19, 1879.	1st corps cadets, 8 Jan., 1870; corp., 12 Dec., 1872; mus. in., 14 Oct., 1873; sgt., 31 Jan., 1874; 1st sgt., sgt. maj., 5 Feb., 1875; 1st lt., 13 July, 1876; adjt., 8 April, 1876; dis., 28 April, 1876; re-app., 23 April, 1876.	.	Boston.	
<i>First Lieutenant.</i> Luther H. Wightman, Boston, Feb. 5, 1889.	1st corps cadets, 2 Sept., 1872; mus. in., 14 June, 1873; corp., 21 May, 1876; sgt., 19 Feb., 1880; 1st sgt., 15 May, 1883; sgt. maj., 12 Sept., 1887.	.	Easton.	
<i>Second Lieutenant.</i> Frank L. Joy, Boston, Jan. 10, 1893.	1st corps cadets, 11 Feb., 1880; corp., 12 Oct., 1890; sgt., 24 March, 1893; 1st sgt., 25 June, 1898; sgt. maj., 22 Dec., 1892.	.	Boston.	English High.
COMPANY B — Boston.				
<i>Captain.</i> William H. Alline, Boston, Aug. 10, 1881.	2d regt., F. 27 March, 1865; sgt., dis., 20 June, 1867; 1st corps cadets, 28 April, 1870; corp., 11 Nov., 1872; mus. in., 14 June, 1873; sgt., 15 Dec., 1873; 1st sgt., 4 March, 1875; sgt. maj., 23 Dec., 1875; 1st lt., 11 April, 1876; adjt., 16 June, 1880.	44th M. V. M. Co, 12 Sept., 1862; dis., 18 June, 1868.	Boston.	
<i>First Lieutenant.</i> William B. Clarke, Boston, May 8, 1883.	30th unatt. co., afterwards 2d regt., co. C, priv. corp., sgt., Sept., 1864, to March, 1867; 1st corps cadets, 17 Jan., 1870; corp., 8 July, 1876; sgt., 27 July, 1878; 1st sgt., 23 April, 1881; sgt. maj., 22 May, 1882.	.	Northampton.	
<i>Second Lieutenant.</i> George H. Ager, Jr., Boston, Feb. 14, 1893.	1st regt., K, 11 Oct., 1882, to 14 Nov. 1883; 2d, 1st corps cadets, 12 June, 1884; corp., 11 Dec., 1884; sgt., 25 June, 1886; 1st sgt., 6 April, 1888; sgt. maj., 16 June, 1893.	.	West Roxbury.	Roxbury Latin.

COMPANY C — Boston.																
<i>Captain.</i> Andrew Robeson, Brookline, June 6, 1883.																
<i>First Lieutenant.</i> Walter L. Bouvé, Hingham, Feb. 19, 1889.																
<i>Second Lieutenant.</i> Richard D. Sears, Nahant, March 14, 1893.																
COMPANY D — Boston.																
<i>Captain.</i> Henry B. Rice, Boston, March 13, 1883.																
<i>First Lieutenant.</i> Thomas B. Ticknor, Boston, Aug. 31, 1881.																
<i>Second Lieutenant.</i> Edward E. Currier, Malden, April 11, 1893.																

1st N. Y. engineers, 1st lt., 24 May, 1864; capt., Feb., 1865; brt. maj., U. S. V., 13 March, 1866.

1st corps cadets, 23 March, 1876; corp., 3 May, 1877; sgt., 29 July, 1879; 1st sgt., 6 Oct., 1881; 1st lt., 15 March, 1883.

1st corps cadets, 29 April, 1876; corp., 9 July, 1879; sgt., 15 Sept., 1881; 1st sgt., 9 June, 1883; sgt. maj., 8 Feb., 1889.

1st corps cadets, 13 June, 1883; corp., 6 July, 1886; sgt., 16 Oct., 1888; 1st sgt., 22 Dec., 1892; sgt. maj., 17 Feb., 1893.

Fall River.

Boston.

Boston.

Boston.

Boston.

Institute of Technology.

West Roxbury.

11th Mass. batt'y, priv., 25 Aug., 1862; dis., 25 May, 1863.

Chauncy Hall, Boston.

Boston.

SECOND CORPS OF CADETS—Salem.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Lieutenant Colonel.</i> John W. Hart, Salem, July 6, 1891.	Salem mechanic lgt. inf., 1859-61; 2d corps cadets, 1st lt., 7 Aug., 1874; capt., 10 May, 1876; com. vacated; 11 Jan., 1882, decision sup. jud. court; re-elected, 13 Jan., 1882, maj., 23 Jan., 1884.	5th M. V. M., A. corp., 1 May, 1891; dis., 31 July, 1891; at Mass. Inv. Art., L, 1st Sgt., 20 Feb., 1894; dis., 21 June, 1895.	Kinderhook, N. Y.	
<i>Major.</i> Samuel A. Johnson, Salem, July 6, 1891.	2d corps cadets, 22 April, 1874; corp., 4 June, 1875; Sgt., 16 March, 1877; dis., 22 April, 1877; 2d, 23 April, 1877; 2d lt., 21 May, 1878; 1st lt., 26 April, 1880; capt., 9 July, 1883.	. . . . .	Salem.	
<i>Adjutant, rank 1st Lt.</i> Andrew Fitz, Salem, April 13, 1890.	2d corps cadets, 22 April, 1874; corp., 20 May, 1876; Sgt. maj., 12 April, 1877; dis., 22 April, 1877; 2d, 23 April, 1877.	. . . . .	Pepperell.	
<i>Quartermaster, rank 1st Lt.</i> Edward A. Simonds, Salem, July 1, 1893.	2d corps cadets, 1844; 1st lt., 23 Jan., 1865; quar. mas., 1 July, 1868; dis., 28 April, 1876; re-app., 8 May, 1876; com. vacated, 14 March, 1882, decision sup. jud. court; re app., 14 March, 1882.	2d corps cadets, 1st Sgt., 26 May, 1892; dis., 11 Oct., 1892.	Salem.	
<i>Surgeon.</i> Ben. R. Symonds, Jr., Salem, Jan. 18, 1896.	. . . . .	. . . . .	Salem.	
<i>Assistant Surgeon, rank 1st Lt.</i> James E. Simpson, Salem, May 4, 1893.	8th regt., asst. surg., 18 May, 1891; res., 4 May, 1893.	. . . . .	Brewer, Me., . .	Harvard, 1890.
<i>Paymaster, rank 1st Lt.</i> Edward A. Maloon, Beverly, April 28, 1893.	2d corps cadets, April, 1864; mus. ln., 2 July, 1873; Sgt., 4 June, 1875; dis., 2 July, 1876; 2d, 14 July, 1876; 1st Sgt., 15 March, 1877; dis., 14 July, 1879; 2d, 26 July, 1879; Sgt. maj., 1 June, 1880; 2d lt., 8 Feb., 1882.	. . . . .	Salem.	•

<i>Inspector Rifle Practice, rank 1st Lt.</i> Walter H. Merritt, Salem, July 20, 1897.	1st, 5th batt'y; 2d, 2d corps cadets, 19 Feb., 1878; dis., 19 Feb., 1881; 3d, 20 Dec., 1886; priv., corp. and sgt.	.	.	.	.	.	.	.	.	Salem.
<i>Chaplain.</i> Ellery O. Butler, Beverly, Jan. 3, 1891.	8th regt., chap., 15 Dec., 1872; dis., 23 April, 1876.	.	.	.	.	.	.	.	.	Salem.
COMPANY A — Salem.		.	.	.	.	.	.	.	.	Jersey City, N. J.
<i>Captain.</i> Charles J. Baker, Beverly, July 6, 1891.	2d corps cadets, 2 Sept., 1881; corp., 26 July, 1883; 2d lt., 23 June, 1884; 1st lt., 20 July, 1888.	.	.	.	.	.	.	.	.	Jersey City, N. J.
<i>First Lieutenant.</i> George D. Kimball, Lowell, July 6, 1891.	2d corps cadets, 18 Oct., 1889; 2d, 18 Oct., 1890.	.	.	.	.	.	.	.	.	Lowell.
<i>Second Lieutenant.</i> Charles F. Ropes, Salem, Oct. 12, 1893.	2d corps cadets, 26 Feb., 1884, to 12 Oct., 1893; priv., corp., sgt., 1st sgt., sgt. maj.	.	.	.	.	.	.	.	.	Salem.
COMPANY B — Salem.		.	.	.	.	.	.	.	.	Salem.
<i>Captain.</i> Walter F. Peck, Salem, July 1, 1897.	2d corps cadets, 20 Nov., 1873, to 9 July, 1883; priv., corp., sgt., sgt. maj., 2d lt., 14 May, 1883; 1st lt., 9 June, 1883.	.	.	.	.	.	.	.	.	Salem.
<i>First Lieutenant.</i> Reuben W. Ropes, Salem, June 3, 1893.	2d corps cadets, 6 Nov., 1882; dis., 6 Nov., 1885; 2d, 6 Nov., 1885; dis., 6 Nov., 1888; 3d, 6 Nov., 1888; priv., corp., sgt.	.	.	.	.	.	.	.	.	Salem.
<i>Second Lieutenant.</i> P. Frank Packard, Salem, May 23, 1893.	2d corps cadets, 17 Sept., 1886, to 23 May, 1893; priv., corp., sgt., 1st sgt., sgt. maj.	.	.	.	.	.	.	.	.	Charlestown, . Salem High.

Second Corps of Cadets — Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
COMPANY C — Salem. <i>Captain.</i> (Vacancy.)				
<i>First Lieutenant.</i> Frank S. Horton, Salem, July 20, 1888	2d corps cadets, 1st, 16 Sept., 1880; dis., 16 Sept., 1883; 2d, 21 Sept., 1883; dis., 21 Sept., 1884; 3d, Sept., 1884; dis., Sept., 1885; 4th, Sept., 1886; dis., Sept., 1886; 5th, 20 Sept., 1886; 2d lt., 1 July, 1887.	. . . . .	Ipswich.	
<i>Second Lieutenant.</i> Arthur N. Webb, Salem, July 8, 1893.	2d corps cadets, 29 Feb., 1884, to 8 July, 1888; priv., corp., sgt., sgt. maj.	. . . . .	Salem.	
COMPANY D — Lowell. <i>Captain.</i> (Vacancy.)				
<i>First Lieutenant.</i> John E. Spencer, Salem, April 29, 1893.	2d corps cadets, 16 July, 1890, to 28 April, 1893; corp., sgt., sgt. maj.	. . . . .	Boston.	
<i>Second Lieutenant.</i> George Worthen, Lowell, Oct. 12, 1893.	6th regt., C, 9 Feb., 1891, to 9 Feb., 1891; 2d, 14 April, 1894; 1st lt., 23 March, 1887; res., 10 March, 1891; 2d, 2d corps cadets, 16 April, 1891; priv., corp., sgt., 1st sgt.	1st N. H. vols., E, 14 Aug., 1862; priv., corp., sgt., 1st lt., 18 Oct., 1864; dis., 4 July, 1866; exp. term.	Lowell.	

NAVAL BRIGADE.

<i>Captain.</i> John C. Foley, Boston, March 26, 1893.	Naval battl., 25 March, 1890; seaman, lt. comdg., 7 May, 1890.	U. S. Naval Academy, 2 Sept., 1892, to June, 1893; ensign, 1893; master, 1893; lt., 1870; retired, 1888.	Roxbury, . . .	U. S. Naval Academy, 4 years.
<i>Commander.</i> Lesh O. Garrett, Boston, March 20, 1893.	Naval battl., ordnance officer, 10 Feb., 1891, . . .	Appointed cadet midshipman, Sept., 1875; midshipman, June, 1881; com. ensign, junior grade, 8 March, 1888; ensign, 26 June, 1884; res., 8 Aug., 1884; 1st lt. Orlando Guards, Florida Vol. Mil., Nov., 1884; res., 1887.	Winfield, Ia., . .	U. S. Naval Academy, 4 years.
<i>Lieutenant Commander.</i> John W. Weeks, Boston, March 20, 1893.	Naval battl., D, lt. comdg., 25 March, 1890, . . .	. . . . .	Lancaster, N. H., . .	U. S. Naval Academy.
<i>Ensign.</i> Arthur B. Denny, Brookline, April 22, 1893.	Naval battl., 26 Jan., 1892; chief boatswain's mate, com. ensign, 11 Oct., 1892; lt., junior grade, 26 March, 1893.	. . . . .	Auburndale, . . .	English High, Boston; Boston Latin; Harvard College.
<i>Brigade Adjutant, rank Lieut.</i> (Vacancy.)				
<i>Ordnance Officer, rank Lieut.</i> Henry N. Sweet, Boston, March 22, 1893.	Naval battl., O, 25 March, 1890; seaman, gunner's mate, boatswain's mate; ensign, 26 Jan., 1892; lt., junior grade, 11 Oct., 1892.	. . . . .	Lancaster, N. H., . .	
<i>Equipment Officer, rank Lieut.</i> Henry H. Carter, March 22, 1893.				
<i>Brigade Paymaster, rank Lieut.</i> George E. Norris, Malden, May 25, 1890.				

Naval Brigade—Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
<i>Surgeon, rank Lieut.</i> Thomas Armore DeBlola, Boston, Nov. 18, 1893.	Naval battl., A, seaman, 25 March, 1890; lt. comdg., 7 May, 1890; res., 6 Sept., 1892.	U. S. N., 31 Sept., 1893, to 1 Feb., 1891; midshipman, ensign, master, lt.	Columbus, Ga.,	U. S. Naval Academy, Sept., 1893, to 1898; Dartmouth School, Dartmouth College 1877; Medical Department, University, N. Y., 1878.
<i>Engineer, rank Lieut.</i> Alfred Brooks Frye, Boston, March 22, 1893.	1st corps cadets, 28 Feb., 1892; trans. to A, Naval battl., 1 July, 1892, seaman.			
<i>Signal Officer, rank Lieut., Junior Grade.</i> Hammond V. Hayes, Boston, March 28, 1893.	Naval battl., yeoman, 20 June, 1890.			
<i>Aid rank Lieut., Junior Grade.</i> William S. Elms, Boston, March 22, 1893.	Naval battl., C, 16 Sept., 1890; trans. to battl. petty staff as yeoman ordnance, 22 Dec., 1891.			
Alpheus S. Hardy, Boston, March 22, 1893.	Naval battl., D, ensign, 25 March, 1890,		Boston,	English High.
<i>Battalion Adjutant, rank Lieut., Junior Grade.</i> Edward Folham Dodd, Boston, March 22, 1893.	1st brig. signal corps, 27 Feb., 1895; dis., 24 June, 1895; 2d Naval battl., C, 4 Oct., 1890; seaman, quartermaster, coxswain, gunner's mate, lt., junior grade, 30 Sept., 1892.		New York, N. Y.	
<i>Battalion Adjutant.</i> Timothy W. Sprague, Boston, June 26, 1893.				

Naval Brigade — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
James H. Dillaway, Jr., Combridge, April 25, 1863.	1st battl. cav., D, 5 June, 1863, to 5 June, 1865; 2d, 25 June, 1867; trans. to 1st regt., B, 6 Sept., 1867; trans. to N. C. B., 1st battl. cav., guidon mgt.; dis., 20 June, 1869; 2d, 22 June, 1869; trans. to Naval battl., B, 20 Feb., 1891; seaman, mate, boatswain's mate; ensign, 31 Jan., 1893.	. . . . .	Cambridge.	
<i>Ensigns.</i> Phillip H. Downes, Jamaica Plain, March 25, 1860.	. . . . .	. . . . .	Dorchester.	Chauncy Hall.
Horace F. Fuller, Boston, April 25, 1862.	Naval brigade, coxswain, 10 Sept., 1890; boatswain's mate, 14 April, 1891.	. . . . .	
COMPANY C. <i>Lieutenant, Chief of Detachment.</i> William A. Cary, Boston, Jan. 25, 1892.	Naval battl., C, ensign, 25 March, 1890; lt., junior grade, 25 Nov., 1890.	. . . . .	Roxbury.	Roxbury Latin.
<i>Lieutenants, Junior Grade.</i> Alfred H. Bond, Boston, Dec. 1, 1891.	Ensign, 25 Nov., 1890.	. . . . .	Roxbury.	
Frank E. Watkeys, Somerville, May 9, 1893.		. . . . .	
<i>Ensigns.</i> James D. Colt, Boston, March 25, 1893.	Naval battl., C, 8 Sept., 1891; seaman, coxswain, gunner's mate, boatswain.	Concord, N. H.	Newton High.
Charles T. Davis, Winthrop, July 15, 1893.			

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Naval Brigade — Continued.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical Instruction.
James H. Dillaway, Jr., Cambridge, April 23, 1883.	1st battl. cav., D, 5 June, 1883, to 5 June, 1888; 2d, 22 June, 1887; trans. to 1st regt., B, 6 Sept., 1887; trans. to K, C, S.; 1st battl. cav., guidon sq.; dis., 20 June, 1890; 3d, 25 June, 1890; trans. to Naval battl., E, 20 Feb., 1891; seaman, mate, boatswain's mate; ensign, 31 Jan., 1893.	. . . . .	Cambridge.	
<i>Ensign.</i> Phillip H. Downes, Jamaica Plain, March 25, 1890.	. . . . .	. . . . .	Dorchester, . .	Chauncy Hall.
Horace F. Fuller, Boston, April 25, 1893.	Naval brigade, coxswain, 10 Sept., 1890; boatswain's mate, 14 April, 1891.	. . . . .	
COMPANY C. <i>Lieutenant, Chief of Division.</i> William A. Cary, Boston, Jan. 26, 1892.	Naval battl., C, ensign, 25 March, 1890; lt., junior grade, 25 Nov., 1890.	. . . . .	Roxbury, . .	Roxbury Lath.
<i>Lieutenant, Junior Grade.</i> Alfred H. Bond, Boston, Dec. 1, 1891.	Ensign, 25 Nov., 1890, . . . . .	. . . . .	Roxbury.	
Frank E. Watkeys, Somerville, May 9, 1893.		. . . . .	
<i>Ensign.</i> James D. Colt, Boston, March 28, 1893.	Naval battl., C, 8 Sept., 1891; seaman, coxswain, gunner's mate, boatswain.	. . . . .	Concord, N. H., .	Newton High.
Charles T. Davis, Winthrop, July 16, 1893.		. . . . .	

Naval Brigade—Concluded.

NAME, ADDRESS, RANK, AND DATE OF COMMISSION.	Original Entry into the Service. Subsequent Service and Commissions.	Service of other States, and of United States.	Born.	Received Military or Medical In- struction.
COMPANY F.				
<i>Lieutenant, Chief of Division.</i> John D. Munroe, Fall River, Sept. 30, 1891.	Priv. corp., sgt., co. M, 1st reg., 11 Dec., 1873, to 24 April, 1883; 2d lt., 24 April, 1883; 1st lt., 5 Feb., 1889.	. . . . .	Prince Edward Island.	
<i>Lieutenant, Junior Grade.</i> William B. Edgar, Fall River, Sept. 30, 1892.	1st regt., M, 6 Nov., 1879; 2d, 6 Nov., 1882; 3d, 23 Nov., 1884; 4th, 1 Dec., 1885; dis., 19 April, 1886; priv., corp., sgt.	. . . . .	Fall River.	
Nathan Durfee, Fall River, Sept. 30, 1892.	Naval batl., O, 7 Oct., 1890; seaman, quar. mas., coxswain.	. . . . .	Fall River, . .	Institute Tech- nology.
<i>Ensign.</i> Richard P. Burden, Fall River, Sept. 30, 1892.	. . . . .	. . . . .	Fall River, . .	Institute Tech- nology.
Winford C. Withersell, Fall River, Sept. 30, 1892.	. . . . .	. . . . .	Fall River.	
COMPANY G.				
<i>Lieutenant, Chief of Division.</i> Homer W. Hervey, New Bed- ford, Dec. 21, 1892.	. . . . .	. . . . .	New Bedford.	
<i>Lieutenant, Junior Grade.</i> George N. Gardner, New Bed- ford, Nov. 23, 1892.	. . . . .	. . . . .	New Bedford, .	New Bedford High.
A. Ernest Thomas, New Bed- ford, Nov. 23, 1892.	. . . . .	. . . . .	New Bedford, .	New Bedford High; Institute Technology.

ROSTER.

COMMISSIONED OFFICERS IN ORDER OF LINEAL RANK.

Commander-in-Chief and Staff.

NAME AND RANK.	Date of Commission.	Staff.
<i>Governor and Commander-in-Chief.</i>		
WILLIAM E. RUSSELL,	Jan. 8, 1891.	
<i>Staff Officers.</i>		
Dalton, Samuel, Major General,	Jan. 3, 1884,	Adjutant General.
Kittredge, Thomas, Brigadier General,	8, 1891,	Surgeon General.
Taylor, Charles H., Brigadier General,	8, 1891,	Commissary General.
Peabody, Francis, Jr., Brigadier General,	July 11, 1892,	Judge Advocate Gen.
Cutting, Walter, Colonel,	Jan. 8, 1891,	Aide-de-Camp.
Donahoe, Michael T., Colonel,	8, 1891,	Aide-de-Camp.
Borden, Spencer, Colonel,	8, 1891,	Aide-de-Camp.
Vincent D. Howard, Colonel,	July 11, 1892,	Aide-de-Camp.
Chase, William L., Colonel,	Jan. 8, 1891,	Insp. Gen. Rifle Prac.
Keeler, George A., Colonel,	2, 1890,	Asst. Insp. General.
Andrews, Henry D., Colonel,	8, 1891,	Asst. Insp. General.
King, Frederick G., Colonel,	13, 1892,	Asst. Insp. General.
Carter, James L., Colonel,	13, 1892,	Asst. Insp. General.
Delaney, James E., Colonel,	8, 1891,	Asst. Adjt. General.
Gaston, William A., Colonel,	8, 1891,	Asst. Adjt. General.
Cunningham, John H.,	8, 1891,	Asst. Adjt. General.
Russell, Henry E., Colonel,	8, 1891,	Asst. Adjt. General.
Wheelright, John T., Colonel,	July 11, 1892,	Asst. Adjt. General.
Thayer, John E., Colonel,	Jan. 8, 1891,	Asst. Q. M. General.
Carmichael, James H., Colonel,	8, 1891,	Asst. Q. M. General.
Verry, Horace B., Colonel,	8, 1891,	Asst. Q. M. General.
Parker, Percy, Colonel,	May 25, 1893,	Asst. Q. M. General.

Brigadiers General and Staff.

No.	NAME AND RANK.	Date of Commission.	Brigade.	Staff.
<i>Brigadiers General.</i>				
1	Peach, Benjamin F., Jr.,	Feb. 18, 1882,	2d.	
2	Bridges, Benjamin F.,	Jan. 5, 1889,	1st.	
<i>Staff Officers.</i>				
1	Fry, Charles C., Lieut. Colonel,	Mar. 4, 1882,	2d,	Asst. Adjt. Gen.
2	Parker, Bowdoin S., Lieut. Colonel,	Jan. 23, 1889,	1st,	Asst. Adjt. Gen.
3	Burrell, Herbert L., Lieut. Colonel,	Feb. 20, 1889,	1st,	Med. Director.
4	Hersey, Freeman C., Lieut. Colonel,	Apr. 13, 1891,	2d,	Med. Director.

Brigadiers General and Staff—Concluded.

No.	NAME AND RANK.	Date of Commission.	Brigade.	Staff.
1	Hinman, Charles W., Major, . .	Aug. 24, 1887,	1st,	Asst. Insp. Gen. Rifle Practice.
2	Briggs, Frank H., Major, . .	Jan. 2, 1890,	1st,	Asst. Insp. Gen.
3	Hall, Aaron A., Major, . .	April 13, 1891,	2d,	Asst. Insp. Gen.
1	George, Elijah, Captain, . .	Aug. 12, 1882,	2d,	Judge Advocate.
2	Lambert, William T., Captain, .	Jan. 15, 1884,	2d,	Aide-de-Camp.
3	Thompson, Newell A., Captain, .	May 25, 1886,	2d,	Aide-de-Camp.
4	Cordis, Thomas F., Captain, . .	Feb. 21, 1889,	1st,	Aide-de-Camp.
5	Hayden, Charles L., Captain, . .	21, 1889,	1st,	Brigade Q. M.
6	Dewey, Henry S., Captain, . .	25, 1889,	1st,	Judge Advocate.
7	Lyford, Charles D., Captain, . .	Mar. 15, 1889,	1st,	Prov. Marshal.
8	Lathrop, Joseph H., Captain, . .	Jan. 22, 1890,	1st,	Aide-de-Camp.
9	Little, Philip, Captain, . .	May 1, 1891,	2d,	Engineer.
10	Bridges, Corril E., Captain, . .	14, 1891,	1st,	Engineer.
11	Dexter, Gordon, . .	Mar. 30, 1893,	1st,	Prov. Marshal.
12	Rantoul, Augustus N., . .	30, 1893,	2d,	Brigade Q. M.
13	Hunneman, John A., 1st Lieut., .	Feb. 26, 1891,	1st,	Signal Officer.
14	Sprague, Henry W., 1st Lieut., .	April 20, 1891,	2d,	Signal Officer.
15	Standish, Myles, 1st Lieut., . .	May 19, 1893,	1st,	Amb. Officer.
16	Clark, Arthur W., 1st Lieut., . .	19, 1893,	2d,	Amb. Officer.

Field and Staff Officers of Infantry.

No.	NAME AND RANK.	Date of Commission.	Regiment.
<i>Colonels.</i>			
1	Bancroft, Wm. A.,	Feb. 7, 1882,	5th Regiment.
2	Mathews, Thomas R.,	Dec. 10, 1888,	1st Regiment.
3	Clark, Embury P.,	Feb. 2, 1889,	2d Regiment.
4	Parsons, Henry,	Mar. 24, 1890,	6th Regiment.
5	Bogan, Fred. B.,	Jan. 3, 1893,	9th Regiment.
6	Dodge, Charles L.,	Oct. 6, 1893,	8th Regiment.
<i>Lieutenant Colonels.</i>			
1	Edmonds, Thomas F.,	Oct. 14, 1873,	1st Corps Cadets.
2	Frost, G. Frank,	Jan. 20, 1889,	5th Regiment.
3	Logan, Lawrence J.,	Nov. 6, 1889,	9th Regiment.
4	Woodward, Charles F.,	Mar. 24, 1890,	6th Regiment.
5	Hovey, Charles L.,	Mar. 5, 1891,	1st Regiment.
6	Hart, John W.,	July 6, 1891,	2d Corps Cadets.
7	Brackett, Eben T.,	Oct. 6, 1893,	8th Regiment.
8	Shumway, Edwin R.,	Nov. 3, 1893,	2d Regiment.
<i>Majors.</i>			
1	Grady, Patrick J.,	April 8, 1881,	9th Regiment.
2	Rogers, George R.,	May 29, 1883,	1st Corps Cadets.
3	Whitney, Jophannus H.,	April 18, 1884,	5th Regiment.
4	Chaffin, George H.,	May 16, 1884,	6th Regiment.
5	Bridges, Pharcellus D.,	May 3, 1888,	2d Regiment.
6	Ward, Windsor M.,	June 15, 1888,	8th Regiment.
7	Donovan, William H.,	June 27, 1888,	9th Regiment.
8	Benyon, George H.,	July 21, 1888,	5th Regiment.

Field and Staff Officers of Infantry — Continued.

No.	NAME AND RANK.	Date of Commission.	Regiment.
<i>Majors — Concluded.</i>			
9	Oakes, William H.,	Jan. 30, 1889,	5th Regiment.
10	Southmayd, Frederick G.,	Feb. 2, 1889,	2d Regiment.
11	Pew, William A., Jr.,	June 10, 1890,	8th Regiment.
12	Taylor, George H.,	July 2, 1890,	6th Regiment.
13	Morgan, Richard H.,	May 5, 1891,	1st Regiment.
14	Dyar, Perlie A.,	5, 1891,	1st Regiment.
15	Johnson, Samuel A.,	July 6, 1891,	2d Corps Cadets.
16	O'Connor, Michael J.,	Mar. 30, 1892,	9th Regiment.
17	Darling, Charles K.,	April 4, 1893,	6th Regiment.
18	Pfaff, Charles,	May 18, 1893,	1st Regiment.
19	Ballley, Edward W. M.,	Oct. 6, 1893,	8th Regiment.
20	Whipple, Reuben A.,	Nov. 3, 1893,	2d Regiment.
<i>Adjutants.</i>			
1	Fitz, Andrew,	April 13, 1880,	2d Corps Cadets.
2	Hill, J. Edward R.,	Mar. 26, 1883,	1st Corps Cadets.
3	Ballard, Harry P.,	Oct. 18, 1888,	5th Regiment.
4	Lancaster, John E.,	April 5, 1889,	2d Regiment.
5	Frye, James A.,	May 9, 1891,	1st Regiment.
6	Kelley, Joseph J.,	April 16, 1892,	9th Regiment.
7	Well, George L.,	27, 1892,	8th Regiment.
8	Soutter, James T.,	12, 1893,	6th Regiment.
<i>Quartermasters.</i>			
1	Simonds, Edward A.,	July 1, 1868,	2d Corps Cadets.
2	Melcher, Charles C.,	Feb. 9, 1875,	1st Corps Cadets.
3	Colson, Charles D.,	July 16, 1881,	2d Regiment.
4	Barnes, Frederick P.,	Feb. 20, 1882,	5th Regiment.
5	Page, Ambrose M.,	Mar. 30, 1882,	6th Regiment.
6	Nugent, James H.,	July 16, 1883,	9th Regiment.
7	Woodman, Charles B.,	Jan. 10, 1889,	1st Regiment.
8	Stickney, George A. D.,	Nov. 16, 1893,	8th Regiment.
<i>Surgeons.</i>			
1	Richardson, William L.,	Nov. 6, 1875,	1st Corps Cadets.
2	Clark, David,	Aug. 25, 1876,	2d Regiment.
3	Marion, Otis H.,	April 18, 1883,	1st Regiment.
4	Rice, Charles H.,	Dec. 27, 1884,	6th Regiment.
5	Devine, William H.,	May 1, 1888,	9th Regiment.
6	Symonds, Benjamin R., Jr.,	Jan. 18, 1889,	2d Corps Cadets.
7	Foster, Charles C.,	Mar. 22, 1889,	5th Regiment.
<i>Assistant Surgeons.</i>			
1	Brown, Orland J.,	Sept. 20, 1878,	2d Regiment.
2	Green, Charles M.,	Aug. 3, 1881,	1st Corps Cadets.
3	Dearing, Howard S.,	April 1, 1887,	1st Regiment.
4	O'Callaghan, Dennis F.,	June 15, 1888,	9th Regiment.
5	Chase, H. Lincoln,	July 25, 1889,	5th Regiment.
6	Porter, Omer F.,	April 6, 1890,	6th Regiment.
7	Simpson, James E.,	May 4, 1893,	2d Corps Cadets.
<i>Paymaster — Captain.</i>			
1	Stevens, Charles E.,	Jan. 9, 1874,	1st Corps Cadets.
<i>Paymasters — First Lieutenants.</i>			
2	Maloon, Edward A.,	April 28, 1883,	2d Corps Cadets.
3	Parker, Horace B.,	May 26, 1886,	1st Regiment.
4	Warren, Albert C.,	Dec. 27, 1889,	5th Regiment.
5	Tucker, Edward G.,	May 14, 1890,	6th Regiment.
6	Dobbins, Henry,	Feb. 12, 1891,	9th Regiment.
7	Edson, Archibald C.,	Mar. 19, 1892,	2d Regiment.
8	Moody, Edward G.,	Nov. 15, 1893,	8th Regiment.

Field and Staff Officers of Infantry — Concluded.

No.	NAME AND RANK.	Date of Commission.	Regiment.
<i>Inspectors of Rifle Practice — First Lieutenants.</i>			
1	Bumstead, Sylvester S.,	April 26, 1886,	2d Regiment.
2	Edes, Robert B.,	Aug. 17, 1886,	5th Regiment.
3	Merritt, Walter H.,	July 29, 1887,	2d Corps Cadets.
4	Breen, John,	June 21, 1888,	9th Regiment.
5	Hayes, William A., 2d,	Feb. 7, 1889,	1st Corps Cadets.
6	Hall, George F.,	Nov. 8, 1889,	1st Regiment.
7	Cook, Charles F.,	Dec. 17, 1892,	8th Regiment.
8	Jones, James William,	Aug. 3, 1893,	6th Regiment.
<i>Chaplains.</i>			
1	Butler, Ellery C.,	Jan. 3, 1881,	2d Corps Cadets.
2	Barrows, Samuel J.,	Oct. 5, 1882,	5th Regiment.
3	Savage, Minot J.,	29, 1883,	1st Regiment.
4	Lee, James,	July 1, 1884,	9th Regiment.
5	Dussault, William F.,	May 14, 1890,	6th Regiment.
6	Welwood, George C.,	9, 1891,	2d Regiment.
7	Sanders, George D.,	21, 1891,	8th Regiment.

Line Officers of Infantry.

No.	NAME AND RANK.	Date of Commission.	Co.	Regiment.
<i>Captains.</i>				
1	Braley, Sierra L.,	Dec. 17, 1878,	M,	1st Regiment.
2	Appleton, Francis H.,	July 19, 1879,	A,	1st Corps Cadets.
3	Brown, Charles W.,	June 7, 1881,	D,	2d Regiment.
4	Alline, Wm. H.,	Aug. 10, 1881,	B,	1st Corps Cadets.
5	Rice, Henry B.,	Mar. 13, 1883,	D,	1st Corps Cadets.
6	Robeson, Andrew,	June 5, 1883,	C,	1st Corps Cadets.
7	Cutter, Frank E.,	May 5, 1886,	I,	6th Regiment.
8	Staples, Herbert F.,	3, 1886,	H,	8th Regiment.
9	Regan, William,	10, 1887,	G,	9th Regiment.
10	Frothingham, Joseph H.,	27, 1887,	D,	1st Regiment.
11	Peck, Walter F.,	July 1, 1887,	B,	2d Corps Cadets.
12	Mossman, Adelbert M.,	Nov. 16, 1887,	M,	5th Regiment.
13	Goff, William H.,	18, 1887,	I,	5th Regiment.
14	Morrison, Walter E.,	21, 1887,	K,	5th Regiment.
15	Leonard, John J.,	Mar. 8, 1888,	G,	2d Regiment.
16	Williamson, Charles,	19, 1888,	I,	1st Regiment.
17	Murray, Geo. F. H.,	May 1, 1888,	B,	9th Regiment.
18	Condy, William A.,	July 18, 1888,	A,	2d Regiment.
19	Osgood, Charles W.,	20, 1888,	C,	2d Corps Cadets.
20	Murray, Freeman,	Jan. 2, 1889,	D,	8th Regiment.
21	McDonald, Henry,	11, 1889,	B,	2d Regiment.
22	Henderson, Thomas C.,	Jan. 11, 1889,	E,	5th Regiment.
23	Thayer, Edgar G.,	May 2, 1889,	K,	2d Regiment.
24	Fennessey, Jeremiah G.,	Aug. 1, 1889,	E,	9th Regiment.
25	Danforth, Norris O.,	Sept. 16, 1889,	F,	1st Regiment.
26	Keefe, Daniel J.,	17, 1889,	A,	9th Regiment.
27	Hayes, John J.,	Feb. 11, 1890,	H,	9th Regiment.
28	Joubert, Joseph H.,	May 6, 1890,	F,	9th Regiment.

Line Officers of Infantry—Continued.

No.	NAME AND RANK.	Date of Commission.	Co.	Regiment.
<i>Captains—Concluded.</i>				
29	Magurn, Frank T. L.,	May 12, 1890,	D,	9th Regiment.
30	O'Rielly, Richard P.,	June 30, 1890,	G,	8th Regiment.
31	Edgell, Charles N.,	Sept. 16, 1890,	F,	2d Regiment.
32	Bridges, Marcellus D.,	Oct. 7, 1890,	H,	2d Regiment.
33	Stover, Willis W.,	Nov. 17, 1890,	A,	5th Regiment.
34	McConnell, James E.,	Dec. 1, 1890,	D,	6th Regiment.
35	Sweetsier, Stanwood G.,	29, 1890,	H,	6th Regiment.
36	Pierce, Frederick E.,	Jan. 16, 1891,	L,	2d Regiment.
37	Chick, Albert B.,	Feb. 4, 1891,	G,	1st Regiment.
38	Perry, Arthur E.,	Mar. 23, 1891,	E,	1st Regiment.
39	Shaughnessey, William F.,	23, 1891,	K,	9th Regiment.
40	Damon, Frank C.,	April 7, 1891,	K,	8th Regiment.
41	Whiting, Fred. M.,	15, 1891,	L,	1st Regiment.
42	Williams, William J.,	20, 1891,	L,	6th Regiment.
43	Clement, Murray D.,	May 11, 1891,	F,	5th Regiment.
44	Mitten, Anthony D.,	June 11, 1891,	M,	9th Regiment.
45	Baker, Charles J.,	July 6, 1891,	-	2d Corps Cadets.
46	Quinby, George F.,	Aug. 10, 1891,	K,	1st Regiment.
47	Locke, Elmore E.,	21, 1891,	L,	5th Regiment.
48	Fairbanks, Harry B.,	25, 1891,	C,	2d Regiment.
49	Parsons, Horace M.,	Oct. 21, 1891,	M,	8th Regiment.
50	Priest, George H.,	Mar. 18, 1892,	B,	6th Regiment.
51	Atkins, Henry W.,	April 11, 1892,	C,	1st Regiment.
52	Flanders, Chester M.,	May 2, 1892,	H,	1st Regiment.
53	Butler, Willard C.,	16, 1892,	D,	5th Regiment.
54	Dowd, Lewis A.,	16, 1892,	I,	9th Regiment.
55	Meredith, Francis, Jr.,	July 16, 1892,	H,	5th Regiment.
56	Gilman, John H.,	Aug. 1, 1892,	A,	8th Regiment.
57	Carr, Edward B.,	24, 1892,	G,	6th Regiment.
58	Scott, David C.,	Oct. 17, 1892,	C,	5th Regiment.
59	Larock, Joseph C.,	17, 1892,	G,	5th Regiment.
60	Williams, Henry L.,	Dec. 13, 1892,	I,	2d Regiment.
61	Gihon, Edward J.,	Jan. 2, 1893,	A,	6th Regiment.
62	Miller, Frank E.,	23, 1893,	E,	6th Regiment.
63	Lombard, Walter E.,	23, 1893,	B,	1st Regiment.
64	Goodell, Ulysses A.,	Mar. 10, 1893,	K,	6th Regiment.
65	Dow, William C.,	14, 1893,	F,	8th Regiment.
66	Coan, Frank A.,	16, 1893,	L,	8th Regiment.
67	Stopford, William,	April 10, 1893,	E,	8th Regiment.
68	Whitney, Horace E.,	22, 1893,	M,	6th Regiment.
69	Barber, Philip I.,	May 11, 1893,	E,	2d Regiment.
70	Nowell, John P.,	June 21, 1893,	A,	1st Regiment.
71	Graves, Frank A.,	July 3, 1893,	C,	8th Regiment.
72	Quinlan, Thomas F.,	6, 1893,	C,	9th Regiment.
73	Mason, Edward E.,	10, 1893,	B,	5th Regiment.
74	Cousens, George N. B.,	Nov. 7, 1893,	I,	8th Regiment.
75	Prince, Arthur D.,	11, 1893,	C,	6th Regiment.
76	Tuttle, Allison E.,	13, 1893,	B,	8th Regiment.
77	Morris, Michael E.,	27, 1893,	L,	9th Regiment.
78	Devlin, George A.,	Dec. 18, 1893,	F,	6th Regiment.
79	Jones, Ezra N.,	18, 1893,	M,	2d Regiment.
<i>First Lieutenants.</i>				
1	Ticknor, Thomas B.,	Aug. 31, 1881,	D,	1st Corps Cadets.
2	Clarke, William B.,	May 8, 1883,	B,	1st Corps Cadets.
3	King, Patrick F.,	1, 1888,	B,	9th Regiment.
4	Tisdell, Moses H.,	July 18, 1888,	A,	2d Regiment.
5	Horton, Frank S.,	20, 1888,	C,	2d Corps Cadets.
6	Tolman, William S.,	Dec. 10, 1888,	A,	5th Regiment.
7	Goodridge, Henry B.,	Jan. 2, 1889,	D,	8th Regiment.
8	Wightman, Luther H.,	Feb. 5, 1889,	A,	1st Corps Cadets.
9	Bouvé, Walter L.,	19, 1889,	C,	1st Corps Cadets.

Line Officers of Infantry—Continued.

No.	NAME AND RANK.	Date of Commission.	Co.	Regiment.
<i>First Lieutenants—Continued.</i>				
10	Ropes, Reuben W.,	June 3, 1889,	—	2d Corps Cadets.
11	Sullivan, John J.,	Aug. 1, 1889,	E,	9th Regiment.
12	Smith, John R.,	Sept. 11, 1889,	H,	1st Regiment.
13	McNamara, John F.,	Nov. 18, 1889,	D,	6th Regiment.
14	Flanigan, Benjamin J.,	Feb. 11, 1890,	H,	9th Regiment.
15	Thayer, Willard A.,	April 11, 1890,	K,	2d Regiment.
16	Sands, Patrick A.,	May 6, 1890,	F,	9th Regiment.
17	Crane, Henry,	12, 1890,	C,	9th Regiment.
18	Kincaide, Henry L.,	June 9, 1890,	K,	5th Regiment.
19	Crawley, William J., Jr.,	30, 1890,	G,	8th Regiment.
20	Fowler, Albert A.,	Sept. 16, 1890,	F,	2d Regiment.
21	Childs, Arthur G.,	Oct. 7, 1890,	H,	2d Regiment.
22	Green, Fred G.,	Dec. 29, 1890,	H,	6th Regiment.
23	Gragg, Herbert M.,	Jan. 12, 1891,	F,	5th Regiment.
24	Tuttle, Samuel H.,	20, 1891,	I,	6th Regiment.
25	Vickery, George J.,	Feb. 4, 1891,	G,	1st Regiment.
26	Crotty, David M.,	5, 1891,	D,	9th Regiment.
27	Weecott, John U.,	Mar. 23, 1891,	E,	5th Regiment.
28	Cannon, Peter J.,	23, 1891,	K,	9th Regiment.
29	Train, Edgar R.,	April 8, 1891,	J,	2d Regiment.
30	Lake, Charles H.,	15, 1891,	L,	1st Regiment.
31	Jackson, William H.,	20, 1891,	L,	6th Regiment.
32	Nostrom, Charles F.,	May 11, 1891,	C,	1st Regiment.
33	Phillips, William S.,	18, 1891,	B,	5th Regiment.
34	Ganley, John,	June 11, 1891,	M,	9th Regiment.
35	Kimball, George D.,	July 6, 1891,	—	2d Corps Cadets.
36	Howes, Frederic S.,	Aug. 10, 1891,	K,	1st Regiment.
37	Rider, Phineas L.,	25, 1891,	C,	2d Regiment.
38	Keenan, John S.,	Sept. 14, 1891,	D,	1st Regiment.
39	Day, John E.,	21, 1891,	B,	1st Regiment.
40	Pope, Abner P.,	Dec. 14, 1891,	E,	1st Regiment.
41	Hayes, William C.,	Feb. 1, 1892,	G,	2d Regiment.
42	Mann, James H.,	8, 1892,	L,	5th Regiment.
43	Moulton, Horatio D.,	Mar. 18, 1892,	B,	6th Regiment.
44	Field, Charles H.,	April 8, 1892,	L,	2d Regiment.
45	French, Fred U.,	11, 1892,	K,	8th Regiment.
46	Clark, Herbert A.,	25, 1892,	I,	5th Regiment.
47	Harlow, Arthur W.,	May 16, 1892,	D,	5th Regiment.
48	Dunn, John H.,	16, 1892,	I,	9th Regiment.
49	McDonald, Fred,	July 16, 1892,	H,	5th Regiment.
50	Fairweather, William,	Aug. 24, 1892,	G,	6th Regiment.
51	Cordingly, Roby S.,	Oct. 17, 1892,	C,	5th Regiment.
52	Fuller, David,	Nov. 22, 1892,	M,	1st Regiment.
53	Wyer, Edwin F.,	Dec. 12, 1892,	G,	5th Regiment.
54	Southwick, Robert E.,	13, 1892,	I,	2d Regiment.
55	Flanders, Philip J.,	Jan. 2, 1893,	A,	6th Regiment.
56	Phillips, Ferdinand H.,	Feb. 20, 1893,	F,	1st Regiment.
57	Higgins, Andrew M.,	Mar. 10, 1893,	K,	6th Regiment.
58	Mace, Wilnot U.,	14, 1893,	F,	8th Regiment.
59	Forbes, James,	16, 1893,	L,	8th Regiment.
60	Preston, Joseph W.,	April 10, 1893,	E,	8th Regiment.
61	Spencer, John E.,	28, 1893,	—	2d Corps Cadets.
62	Farley, Joseph B.,	May 11, 1893,	E,	2d Regiment.
63	Moynihan, Jeremiah,	June 12, 1893,	G,	9th Regiment.
64	Fitzgerald, Patrick A.,	19, 1893,	H,	8th Regiment.
65	Paine, Sumner,	21, 1893,	A,	1st Regiment.
66	Higgins, John E.,	26, 1893,	B,	8th Regiment.
67	Snow, Charles H.,	July 3, 1893,	C,	8th Regiment.
68	Rogers, George M.,	10, 1893,	A,	9th Regiment.
69	Fales, Harold E.,	10, 1893,	M,	6th Regiment.
70	Hamilton, Clifford E.,	Aug. 7, 1893,	I,	5th Regiment.
71	Prest, William M.,	Nov. 6, 1893,	M,	5th Regiment.

Line Officers of Infantry—Continued.

No.	NAME AND RANK.	Date of Commission.	Co.	Regiment.
<i>First Lieutenants—Concluded.</i>				
72	Gove, Enoch,	Nov. 7, 1893,	I,	8th Regiment.
73	Richardson, Harry T. B.,	11, 1893,	C,	6th Regiment.
74	Murphy, Daniel J.,	27, 1893,	L,	9th Regiment.
75	Whitten, Herbert W.,	27, 1893,	M,	8th Regiment.
76	Valentine, Frederic P.,	Dec. 11, 1893,	E,	6th Regiment.
77	Chamberlain, Harold B.,	18, 1893,	F,	6th Regiment.
78	Hicks, Herbert O.,	18, 1893,	M,	2d Regiment.
<i>Second Lieutenants.</i>				
1	Barrett, Edwin G.,	July 18, 1888,	A,	2d Regiment.
2	Turner, William H.,	Sept. 17, 1888,	L,	6th Regiment.
3	Hilliker, Charles T.,	Jan. 2, 1889,	D,	8th Regiment.
4	Sterling, John A.,	11, 1889,	B,	2d Regiment.
5	Desmond, Michael J.,	June 20, 1890,	B,	9th Regiment.
6	Bolles, Herbert H.,	Sept. 16, 1890,	F,	2d Regiment.
7	Cook, Cyrus H.,	Jan. 28, 1891,	I,	6th Regiment.
8	Carey, John B., Jr.,	Feb. 5, 1891,	D,	9th Regiment.
9	Verge, Joseph A.,	6, 1891,	G,	1st Regiment.
10	Botes, Michael S.,	13, 1891,	F,	9th Regiment.
11	Bridges, Eugene T.,	Mar. 14, 1891,	H,	2d Regiment.
12	Gallagher, John B.,	23, 1891,	K,	9th Regiment.
13	Blaisues, John P.,	April 8, 1891,	D,	2d Regiment.
14	Nutter, Charles P.,	May 11, 1891,	C,	1st Regiment.
15	Chapman, Herbert L.,	Aug. 10, 1891,	K,	1st Regiment.
16	Gilman, William L.,	25, 1891,	C,	2d Regiment.
17	Dana, James W.,	Sept. 14, 1891,	D,	1st Regiment.
18	Underwood, Marshall,	21, 1891,	B,	1st Regiment.
19	Marshall, George L.,	Oct. 12, 1891,	M,	8th Regiment.
20	Morgan, Roger,	Feb. 1, 1892,	G,	2d Regiment.
21	Cutting, Frank F.,	8, 1892,	L,	5th Regiment.
22	West, Ernest F.,	Mar. 7, 1892,	H,	6th Regiment.
23	Hathaway, Thos. S.,	14, 1892,	E,	1st Regiment.
24	Colburn, David W.,	18, 1892,	B,	6th Regiment.
25	Sykes, George H.,	April 25, 1892,	I,	5th Regiment.
26	Felton, Frederick B.,	May 6, 1892,	L,	2d Regiment.
27	Benson, Frank N.,	9, 1892,	K,	5th Regiment.
28	Casey, William J.,	16, 1892,	I,	9th Regiment.
29	Chase, A. Preston,	16, 1892,	K,	8th Regiment.
30	Pratt, Walter L.,	June 6, 1892,	H,	1st Regiment.
31	Dunton, Edward A.,	13, 1892,	D,	5th Regiment.
32	Horton, George E.,	20, 1892,	A,	1st Regiment.
33	Gilson, Henry G.,	Aug. 11, 1892,	H,	5th Regiment.
34	Howard, George S.,	24, 1892,	G,	6th Regiment.
35	Scott, J. Albert,	Nov. 14, 1892,	C,	5th Regiment.
36	Perkins, Alexander G.,	18, 1892,	A,	8th Regiment.
37	Borden, Walter F.,	22, 1892,	M,	1st Regiment.
38	Wade, William W.,	Dec. 12, 1892,	G,	5th Regiment.
39	Lowe, George H.,	12, 1892,	E,	6th Regiment.
40	Allen, George P.,	13, 1892,	I,	2d Regiment.
41	Driscoll, John J.,	21, 1892,	D,	6th Regiment.
42	Walton, Charles E.,	Jan. 2, 1893,	A,	6th Regiment.
43	Joy, Frank L.,	10, 1893,	-	1st Corps Cadets.
44	Ager, George B.,	Feb. 14, 1893,	-	1st Corps Cadets.
45	Paine, Sumner,	15, 1893,	A,	1st Regiment.
46	Meek, William J.,	20, 1893,	F,	1st Regiment.
47	Bronsebau, Henry L.,	Mar. 10, 1893,	K,	6th Regiment.
48	Sears, Richard D.,	14, 1893,	-	1st Corps Cadets.
49	Lawless, Thomas J., Jr.,	16, 1893,	L,	8th Regiment.
50	Currier, Edward E.,	April 11, 1893,	-	1st Corps Cadets.
51	Rogers, Charles E.,	22, 1893,	K,	2d Regiment.
52	McNulty, Philip,	May 4, 1893,	M,	9th Regiment.
53	Whiting, William E.,	8, 1893,	F,	5th Regiment.

Line Officers of Infantry—Concluded.

No.	NAME AND RANK.	Date of Commission.	Co.	Regiment.
<i>Second Lieutenants—Concluded.</i>				
54	Hosmer, Frank P., . . .	May 11, 1893,	E,	2d Regiment.
55	Crowley, Thomas F., . . .	9, 1893,	F,	8th Regiment.
56	Noyes, Francis C., . . .	9, 1893,	G,	8th Regiment.
57	Packard, P. Frank, . . .	23, 1893,	-	2d Corps Cadets.
58	Purbeck, Dudley B., . . .	June 19, 1893,	H,	8th Regiment.
59	Bray, Rowland W., . . .	22, 1893,	A,	5th Regiment.
60	Tuttle, Allison E., . . .	26, 1893,	B,	8th Regiment.
61	Reed, Charles F., . . .	30, 1893,	M,	5th Regiment.
62	Webb, Arthur W., . . .	July 8, 1893,	-	2d Corps Cadets.
63	Moulton, Henry A., . . .	7, 1893,	E,	8th Regiment.
64	Sullivan, Timothy J., . . .	10, 1893,	A,	9th Regiment.
65	Facey, Charles W., . . .	10, 1893,	B,	5th Regiment.
66	Church, Horace R., . . .	10, 1893,	M,	6th Regiment.
67	Hines, Mathew E., . . .	22, 1893,	G,	9th Regiment.
68	Slee, Charles A., . . .	Sept. 11, 1893,	C,	8th Regiment.
69	Ropes, Charles F., . . .	Oct. 12, 1893,	-	2d Corps Cadets.
70	Worthen, George E., . . .	12, 1893,	-	2d Corps Cadets.
71	Hodgdon, Charles E., . . .	Nov. 7, 1893,	I,	8th Regiment.
72	Connealey, Philip, . . .	27, 1893,	L,	9th Regiment.
73	Blake, Walter F., . . .	Dec. 11, 1893,	E,	6th Regiment.
74	Simmons, George E., . . .	18, 1893,	M.,	2d Regiment.

Field, Staff and Line Officers of Artillery.

NAME AND RANK.	Date of Commission.	Co.	
<i>Major.</i>			
Duchesney, Lawrence N.,	May 19, 1893,	-	1st Battalion.
<i>Adjutant.</i>			
Merrill, Winfield G.,	Dec. 3, 1890,	-	1st Battalion.
<i>Quartermaster.</i>			
Hennessey, William H,	May 24, 1893,	-	1st Battalion.
<i>Surgeon.</i>			
Johnson, Frank M.,	July 17, 1889,	-	1st Battalion.
<i>Assistant Surgeons.</i>			
Galloupe, Charles W.,	Sept. 13, 1893,	A,	Unattached.
<i>Veterinary Surgeon.</i>			
Osgood, Frederic H.,	April 5, 1893,	-	1st Battalion.
<i>Paymaster.</i>			
Clapp, Henry B.,	May 24, 1893,	-	1st Battalion.
<i>Captains.</i>			
Follett, Dexter H.,	Dec. 23, 1885,	A,	Unattached.
Bigelow, Lawrence G.,	Mar. 11, 1891,	B,	1st Battalion.
Stedman, William L.,	May 24, 1893,	C,	1st Battalion.
<i>First Lieutenants.</i>			
Sanborn, George A.,	Oct. 14, 1887,	C,	1st Battalion.
Ruddick, William H.,	June 7, 1887,	A,	Unattached.
Bruso, Joseph, Jr.,	Sept. 24, 1888,	B,	1st Battalion.
Hall, William F.,	Mar. 3, 1890,	A,	Unattached.
Haynes, Herbert W.,	April 1, 1892,	B,	1st Battalion.
Sargent, Charles F.,	May 24, 1893,	C,	1st Battalion.
<i>Second Lieutenants.</i>			
Brayman, John E.,	May 21, 1888,	A,	Unattached.
Davis, William P.,	June 29, 1891,	A,	Unattached.
Kelley, George D.,	April 1, 1892,	B,	1st Battalion.
Gould, William T.,	1, 1892,	B,	1st Battalion.
Walworth, William B.,	Feb. 1, 1893,	B,	1st Battalion.
Goldsmith, George H.,	May 24, 1893,	C,	1st Battalion.
Powell, John S.,	24, 1893,	C,	1st Battalion.

Field, Staff and Line Officers of Cavalry.

NAME AND RANK.	Date of Commission.	Co.	
<i>Major.</i>			
Kemp, Horace G.,	Mar. 25, 1884,	-	1st Battalion.
<i>Adjutant.</i>			
Locke, Frank L.,	Jan. 14, 1889,	-	1st Battalion.
<i>Quartermaster.</i>			
Newton, Sullivan B.,	Jan. 31, 1882,	-	1st Battalion.
<i>Surgeon.</i>			
Cogswell, Charles H.,	Dec. 8, 1887,	-	1st Battalion.
<i>Assistant Surgeons.</i>			
Howard, Amasa,	Feb. 19, 1889,	F,	Unattached.
Millet, Charles S.,	May 17, 1890,	-	1st Battalion.
<i>Veterinary Surgeon.</i>			
Peters, Austin,	June 29, 1891,	-	1st Battalion.
<i>Paymaster.</i>			
Pierce, James W.,	April 5, 1887,	-	1st Battalion.
<i>Inspector Rifle Practice.</i>			
Litchfield, Horace D.,	June 27, 1893,	-	1st Battalion.
<i>Chaplain.</i>			
Rider, William H.,	April 15, 1884,	-	1st Battalion.
<i>Captains.</i>			
Henderson, George F.,	Dec. 26, 1892,	D,	1st Battalion.
Emerson, Daniel K.,	Feb. 21, 1893,	A,	1st Battalion.
Shaw, Elisha H.,	Sept. 16, 1893,	F,	Unattached.
<i>First Lieutenants.</i>			
Perrin, Wm. A.,	Dec. 26, 1892,	D,	1st Battalion.
Jones, Oscar A.,	Feb. 21, 1893,	A,	1st Battalion.
Leighton, Amos R.,	Sept. 16, 1893,	F,	Unattached.
<i>Second Lieutenants.</i>			
Perrin, John, Jr.,	Dec. 26, 1892,	D,	1st Battalion.
Young, Doris A.,	Feb. 21, 1893,	A,	1st Battalion.
Quigley, William J.,	Sept. 16, 1893,	F,	Unattached.

Field, Staff and Line Officers of Naval Brigade.

NAME AND RANK.	Date of Commission.	Co.	
<i>Captain.</i>			
Soley, John C.,	Mar. 20, 1893,	-	Brigade.
<i>Commander.</i>			
Garrett, Legh Osborne,	Mar. 20, 1893,	-	Brigade.
<i>Lieutenant Commander.</i>			
Weeks, John W.,	Mar. 20, 1893,	-	1st Battalion.
Denney, Arthur B.,	Apr. 22, 1893,	-	2d Battalion.
<i>Adjutant, rank Lieutenant.</i> (Vacancy.)			
<i>Ordnance Officer, rank Lieutenant.</i>			
Sweet, Henry N.,	Mar. 22, 1893,	-	Brigade.
<i>Equipment Officer, rank Lieutenant.</i>			
Carter, Henry H.,	Mar. 22, 1893,	-	Brigade.
<i>Paymaster, rank Lieutenant.</i>			
Norris, George E.,	Mar. 22, 1893,	-	Brigade.
<i>Surgeon, rank Lieutenant.</i>			
DeBlois, Thomas Amory,	Nov. 18, 1893,	-	Brigade.
<i>Engineer, rank Lieutenant.</i>			
Frye, Alfred B.,	Mar. 22, 1893,	-	Brigade.
<i>Signal Officer, rank Lieutenant, Junior Grade.</i>			
Hayes, Hammond V.,	Mar. 23, 1893,	-	Brigade.
<i>Aid, rank Lieutenant, Junior Grade.</i>			
Bliss, William S.,	Mar. 22, 1893,	-	Brigade.
Hardy, Alpheus S.,	Mar. 22, 1893,	-	Brigade.
<i>Adjutant, rank Lieutenant, Junior Grade.</i>			
Dodd, Edward Pelham,	Mar. 22, 1893,	-	1st Battalion.
Sprague, Timothy W.,	June 26, 1893,	-	2d Battalion.
<i>Assistant Surgeon, rank Lieutenant, Junior Grade.</i>			
Allen, Gardner W.,	Mar. 22, 1893,	-	1st Battalion.
Abbe, Edward H.,	Oct. 19, 1893,	-	2d Battalion.
<i>Lieutenants, Chief of Division.</i>			
Paul, William M.,	Mar. 25, 1890,	B,	1st Battalion.
Cary, William A.,	Jan. 26, 1892,	C,	1st Battalion.
Lawrence, John,	Sept. 21, 1892,	A,	1st Battalion.
Munroe, John D.,	Sept. 30, 1892,	F,	2d Battalion.

Field, Staff and Line Officers of Naval Brigade — Concluded.

NAME AND RANK.	Date of Commission.	Co.	
<i>Lieutenants, Chief of Division — Concluded.</i>			
Sears, Henry D.,	Sept. 30, 1892,	E,	2d Battalion.
Hervey, Homer W.,	Dec. 21, 1892,	G,	2d Battalion.
Dexter, Jenness K.,	Mar. 6, 1893,	H,	2d Battalion.
Parsons, Frank B.,	28, 1893,	D,	1st Battalion.
<i>Lieutenants, Junior Grade.</i>			
Brigham, Charles H.,	Mar. 25, 1890,	B,	1st Battalion.
Bond, Alfred H.,	Dec. 1, 1891,	C,	1st Battalion.
Clapp, Theo. H.,	Sept. 21, 1892,	A,	1st Battalion.
Edgar, William B.,	30, 1892,	F,	2d Battalion.
Blackwell, Francis O.,	30, 1892,	E,	2d Battalion.
Durfee, Nathan,	Sept. 30, 1892,	F,	2d Battalion.
Gardiner, George N.,	Nov. 28, 1892,	G,	2d Battalion.
Thomas, A. Ernest,	28, 1892,	G,	2d Battalion.
Crossman, Henry S.,	Mar. 6, 1893,	H,	2d Battalion.
Weston, Fred. H.,	6, 1893,	H,	2d Battalion.
Selfredge, George S.,	28, 1893,	D,	1st Battalion.
Dillaway, James H., Jr.,	April 25, 1893,	B,	1st Battalion.
Watkeys, Frank E.,	May 9, 1893,	C,	1st Battalion.
Von Loescke, Magnus F. S.,	June 30, 1893,	E,	2d Battalion.
White, Edgar T.,	Nov. 21, 1893,	A,	1st Battalion.
<i>Ensigns.</i>			
Downes, Philip H.,	Mar. 25, 1890,	B,	1st Battalion.
Cushing, Louis T.,	Sept. 21, 1892,	A,	1st Battalion.
Bulkley, Joseph N.,	30, 1892,	E,	2d Battalion.
Borden, Richard P.,	30, 1892,	F,	2d Battalion.
Witherell, Winford C.,	30, 1892,	F,	2d Battalion.
Fish, Frederick R.,	Nov. 28, 1892,	G,	2d Battalion.
Cohn, William O.,	Mar. 6, 1893,	H,	2d Battalion.
Barr, Walter S.,	6, 1893,	H,	2d Battalion.
Colt, James T.,	28, 1893,	C,	1st Battalion.
Witherbee, Frank B.,	28, 1893,	D,	1st Battalion.
Hough, Charles T., Jr.,	28, 1893,	D,	1st Battalion.
Pierce, Albert R.,	April 5, 1893,	G,	2d Battalion.
Fuller, Horace F.,	25, 1893,	B,	1st Battalion.
Whitmore, Frederick C.,	June 30, 1893,	E,	2d Battalion.
Davis, Charles T.,	July 18, 1893,	C,	1st Battalion.
Moseley, Charles B.,	Nov. 21, 1893,	A,	1st Battalion.

